



26	<ul> <li>amends provisions related to the amount of fireworks a person may store in a</li> </ul>
27	building equipped with an approved sprinkler system;
28	<ul> <li>amends provisions related to carbon monoxide alarm installation;</li> </ul>
29	<ul> <li>amends provisions related to supplying toilet facilities during building construction;</li> </ul>
30	<ul> <li>provides an alternative means of complying with the International Energy</li> </ul>
31	Conservation Code;
32	<ul> <li>amends provisions related to air duct leakage testing;</li> </ul>
33	<ul> <li>modifies the amount of allowed air duct leakage;</li> </ul>
34	<ul> <li>modifies energy rating index compliance requirements;</li> </ul>
35	<ul> <li>modifies installation requirements for potable water supply protection;</li> </ul>
36	<ul> <li>modifies electrical wiring requirements for a basement, garage, or accessory</li> </ul>
37	building;
38	<ul> <li>deletes a requirement in the International Plumbing Code that trenching parallel to a</li> </ul>
39	footing or wall not extend into the bearing plane of the footing or wall;
40	<ul> <li>deletes an International Plumbing Code requirement for installation of a temperature</li> </ul>
41	limiting device in a footbath, pedicure bath, or head shampoo sink;
42	<ul> <li>deletes an International Plumbing Code requirement for multiple-compartment</li> </ul>
43	sinks that discharge independently to a waste receptor;
44	<ul> <li>provides an alternative method for storm drain installation;</li> </ul>
45	<ul> <li>provides for the use of a gray water recycling system in a single family residential</li> </ul>
46	area;
47	<ul> <li>provides an alternative compliance method related to embedded joints;</li> </ul>
48	<ul> <li>provides an alternative method for installing an overcurrent device;</li> </ul>
49	<ul> <li>provides emission requirements for certain natural gas-fired water heaters; and</li> </ul>
50	<ul> <li>amends provisions to coordinate with newly adopted codes and related Utah Code</li> </ul>
51	sections.
52	Money Appropriated in this Bill:
53	None
54	Other Special Clauses:
55	None
56	Utah Code Sections Affected:

57	AMENDS:
58	15A-1-204, as last amended by Laws of Utah 2014, Chapters 178 and 189
59	15A-1-403, as enacted by Laws of Utah 2011, Chapter 14
60	15A-2-102, as last amended by Laws of Utah 2014, Chapter 189
61	15A-2-103, as last amended by Laws of Utah 2015, Chapter 258
62	15A-2-104, as last amended by Laws of Utah 2014, Chapter 189
63	15A-3-102, as last amended by Laws of Utah 2013, Chapter 297
64	15A-3-103, as last amended by Laws of Utah 2013, Chapter 297
65	15A-3-104, as last amended by Laws of Utah 2014, Chapter 243
66	15A-3-105, as last amended by Laws of Utah 2013, Chapter 297
67	15A-3-106, as last amended by Laws of Utah 2014, Chapter 153
68	15A-3-107, as last amended by Laws of Utah 2013, Chapter 297
69	15A-3-108, as last amended by Laws of Utah 2013, Chapter 297
70	15A-3-110, as last amended by Laws of Utah 2013, Chapter 297
71	15A-3-112, as last amended by Laws of Utah 2013, Chapter 297
72	15A-3-113, as last amended by Laws of Utah 2013, Chapter 297
73	15A-3-202, as last amended by Laws of Utah 2015, Chapter 205
74	15A-3-203, as last amended by Laws of Utah 2013, Chapter 279
75	15A-3-204, as last amended by Laws of Utah 2013, Chapter 297
76	15A-3-205, as last amended by Laws of Utah 2013, Chapter 297
77	15A-3-206, as last amended by Laws of Utah 2013, Chapter 297
78	15A-3-302, as last amended by Laws of Utah 2013, Chapter 297
79	15A-3-303, as last amended by Laws of Utah 2013, Chapter 297
80	15A-3-304, as last amended by Laws of Utah 2013, Chapter 297
81	15A-3-305, as last amended by Laws of Utah 2013, Chapter 297
82	15A-3-306, as last amended by Laws of Utah 2014, Chapter 189
83	15A-3-308, as enacted by Laws of Utah 2011, Chapter 14
84	15A-3-310, as last amended by Laws of Utah 2013, Chapter 297
85	15A-3-311, as last amended by Laws of Utah 2013, Chapter 297
86	15A-3-313, as last amended by Laws of Utah 2013, Chapter 297
87	15A-3-314, as last amended by Laws of Utah 2013, Chapter 297

88	15A-3-401, as last amended by Laws of Utah 2014, Chapter 100
89	15A-3-501, as last amended by Laws of Utah 2013, Chapter 297
90	15A-3-601, as last amended by Laws of Utah 2013, Chapter 297
91	15A-3-701, as last amended by Laws of Utah 2013, Chapter 279
92	15A-3-801, as last amended by Laws of Utah 2013, Chapter 297
93	15A-4-103, as enacted by Laws of Utah 2011, Chapter 14
94	15A-4-107, as enacted by Laws of Utah 2011, Chapter 14
95	15A-4-203, as enacted by Laws of Utah 2011, Chapter 14
96	58-11a-502, as last amended by Laws of Utah 2014, Chapter 100
97	ENACTS:
98	15A-3-315, Utah Code Annotated 1953
99	15A-3-901, Utah Code Annotated 1953
100	<b>15A-6-101</b> , Utah Code Annotated 1953
101	15A-6-102, Utah Code Annotated 1953
102	REPEALS:
103	15A-3-106.5, as enacted by Laws of Utah 2014, Chapter 153
104	
105	Be it enacted by the Legislature of the state of Utah:
106	Section 1. Section 15A-1-204 is amended to read:
107	15A-1-204. Adoption of State Construction Code Amendments by commission
108	Approved codes Exemptions.
09	(1) (a) The State Construction Code is the construction codes adopted with any
110	modifications in accordance with this section that the state and each political subdivision of the
111	state shall follow.
112	(b) A person shall comply with the applicable provisions of the State Construction
113	Code when:
114	(i) new construction is involved; and
115	(ii) the owner of an existing building, or the owner's agent, is voluntarily engaged in:
116	(A) the repair, renovation, remodeling, alteration, enlargement, rehabilitation,
117	conservation, or reconstruction of the building; or
118	(B) changing the character or use of the building in a manner that increases the

119	occupancy loads, other demands, or safety risks of the building.
120	(c) On and after July 1, 2010, the State Construction Code is the State Construction
121	Code in effect on July 1, 2010, until in accordance with this section:
122	(i) a new State Construction Code is adopted; or
123	(ii) one or more provisions of the State Construction Code are amended or repealed in
124	accordance with this section.
125	(d) A provision of the State Construction Code may be applicable:
126	(i) to the entire state; or
127	(ii) within a county, city, or town.
128	(2) (a) The Legislature shall adopt a State Construction Code by enacting legislation
129	that adopts a <u>nationally recognized</u> construction code with any modifications.
130	(b) Legislation [enacted under this Subsection (2)] described in Subsection (2)(a) shall
131	state that [it] the legislation takes effect on the July 1 after the day on which the legislation is
132	enacted, unless otherwise stated in the legislation.
133	(c) Subject to Subsection [(5)] (6), a State Construction Code adopted by the
134	Legislature is the State Construction Code until, in accordance with this section, the Legislature
135	adopts a new State Construction Code by:
136	(i) adopting a new State Construction Code in its entirety; or
137	(ii) amending or repealing one or more provisions of the State Construction Code.
138	(3) (a) Except as provided in Subsection (3)(b), for each update of a nationally
139	recognized construction code, the commission shall prepare a report described in Subsection
140	<u>(4).</u>
141	(b) For the provisions of a nationally recognized construction code that apply only to
142	detached one- and two-family dwellings and townhouses not more than three stories above
143	grade plane in height with separate means of egress and their accessory structures, the
144	commission shall:
145	(i) prepare a report described in Subsection (4) in 2024 and, thereafter, for everythird
146	update of the nationally recognized construction code; and
147	(ii) not prepare a report described in Subsection (4) in 2018 or 2021.
148	(4) (a) In accordance with Subsection (3), on or before September 1 of the same year as
149	the year designated in the title of a nationally recognized construction code, the commission

150	shall prepare and submit a report to the Business and Labor Interim Committee that:
151	(i) states whether the commission recommends the Legislature adopt the update with
152	any modifications; and
153	(ii) describes the costs and benefits of each recommended change in the update or in
154	any modification.
155	(b) After the Business and Labor Interim Committee receives the report described in
156	Subsection (4)(a), the Business and Labor Interim Committee shall:
157	(i) study the recommendations during the remainder of the interim; and
158	(ii) if the Business and Labor Interim Committee decides to recommend legislative
159	action to the Legislature, prepare legislation for consideration by the Legislature in the next
160	general session.
161	[(3)] (5) (a) (i) The commission shall by no later than November 30 of each year in
162	which the commission is not required to submit a report described in Subsection (4),
163	recommend in a report to the Business and Labor Interim Committee whether the Legislature
164	should[: (i)] amend or repeal one or more provisions of [a] the State Construction Code[; or].
165	[(ii) in a year of a regularly scheduled update of a nationally recognized code, adopt a
166	construction code with any modifications.]
167	(ii) As part of a recommendation described in Subsection (5)(a)(i), the commission
168	shall describe the costs and benefits of each proposed amendment or repeal.
169	(b) The commission may recommend legislative action related to the State
170	Construction Code:
171	(i) on its own initiative;
172	(ii) upon the recommendation of the division; or
173	(iii) upon the receipt of a request by one of the following that the commission
174	recommend legislative action related to the State Construction Code:
175	(A) a local regulator;
176	(B) a state regulator;
177	(C) a state agency involved with the construction and design of a building;
178	(D) the Construction Services Commission;
179	(E) the Electrician Licensing Board;
180	(F) the Plumbers Licensing Board; or

181	(G) a recognized construction-related association.
182	[(4)] (c) If the Business and Labor Interim Committee decides to recommend
183	legislative action to the Legislature, the Business and Labor Interim Committee shall prepare
184	legislation for consideration by the Legislature in the next general session [that, if passed by the
185	Legislature, would:].
186	[(a) adopt a new State Construction Code in its entirety; or]
187	[(b) amend or repeal one or more provisions of the State Construction Code.]
188	[(5)] (6) (a) Notwithstanding [Subsection (3)] the provisions of this section, the
189	commission may, in accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking
190	Act, amend the State Construction Code if the commission determines that waiting for
191	legislative action in the next general legislative session would:
192	(i) cause an imminent peril to the public health, safety, or welfare; or
193	(ii) place a person in violation of federal or other state law.
194	(b) If the commission amends the State Construction Code in accordance with this
195	Subsection $[(5)]$ $(6)$ , the commission shall file with the division:
196	(i) the text of the amendment to the State Construction Code; and
197	(ii) an analysis that includes the specific reasons and justifications for the commission's
198	findings.
199	(c) If the State Construction Code is amended under this Subsection [(5)] (6), the
200	division shall:
201	(i) publish the amendment to the State Construction Code in accordance with Section
202	15A-1-205; and
203	(ii) notify the Business and Labor Interim Committee of the amendment to the State
204	Construction Code, including a copy of the commission's analysis described in Subsection [(5)]
205	<u>(6)(b)(ii)</u> .
206	(d) If not formally adopted by the Legislature at [its] the next annual general session,
207	an amendment to the State Construction Code under this Subsection $[(5)]$ (6) is repealed on the
208	July 1 immediately following the next annual general session that follows the adoption of the
209	amendment.
210	[69] (7) (a) The division, in consultation with the commission, may approve, without

adopting, one or more approved codes, including a specific edition of a construction code, for

212	use by a compliance agency.
213	(b) If the code adopted by a compliance agency is an approved code described in
214	Subsection $[(6)]$ $(7)$ (a), the compliance agency may:
215	(i) adopt an ordinance requiring removal, demolition, or repair of a building;
216	(ii) adopt, by ordinance or rule, a dangerous building code; or
217	(iii) adopt, by ordinance or rule, a building rehabilitation code.
218	(8) Except as provided in Subsections (6), (7), and (9), or as expressly provided in state
219	law, a state executive branch entity or political subdivision of the state may not, after
220	December 1, 2016, adopt or enforce a rule, ordinance, or requirement that is more restrictive
221	than the State Construction Code.
222	(9) A state executive branch entity or political subdivision of the state may enforce a
223	federal law or regulation.
224	$[\frac{(7)}{2}]$ (a) Except as provided in Subsection $[\frac{(7)}{2}]$ (10)(b), a structure used solely in
225	conjunction with agriculture use, and not for human occupancy, is exempt from the permit
226	requirements of the State Construction Code.
227	(b) (i) Unless exempted by a provision other than Subsection [(7)] (10)(a), a plumbing,
228	electrical, and mechanical permit may be required when that work is included in a structure
229	described in Subsection $[(7)]$ $(10)$ (a).
230	(ii) Unless located in whole or in part in an agricultural protection area created under
231	Title 17, Chapter 41, Agriculture and Industrial Protection Areas, a structure described in
232	Subsection [ <del>(7)</del> ] (10)(a) is not exempt from a permit requirement if the structure is located on
233	land that is:
234	(A) within the boundaries of a city or town, and less than five contiguous acres; or
235	(B) within a subdivision for which the county has approved a subdivision plat under
236	Title 17, Chapter 27a, Part 6, Subdivisions, and less than two contiguous acres.
237	[(8)] (11) A structure that is no more than 1,000 square feet and is used solely for the
238	type of sales described in Subsection 59-12-104(20) is exempt from the permit requirements
239	described in:
240	(a) Chapter 2, Adoption of State Construction Code;
241	(b) Chapter 3, Statewide Amendments Incorporated as Part of State Construction
242	Code; and

243	(c) Chapter 4, Local Amendments Incorporated as Part of State Construction Code.
244	Section 2. Section 15A-1-403 is amended to read:
245	15A-1-403. Adoption of State Fire Code.
246	(1) (a) The State Fire Code is:
247	(i) a code promulgated by a nationally recognized code authority that is adopted by the
248	Legislature under this section with any modifications; and
249	(ii) a code to which cities, counties, fire protection districts, and the state shall adhere
250	in safeguarding life and property from the hazards of fire and explosion.
251	(b) On and after July 1, 2010, the State Fire Code is the State Fire Code in effect on
252	July 1, 2010, until in accordance with this section:
253	(i) a new State Fire Code is adopted; or
254	(ii) one or more provisions of the State Fire Code are amended or repealed in
255	accordance with this section.
256	(c) A provision of the State Fire Code may be applicable:
257	(i) to the entire state; or
258	(ii) within a city, county, or fire protection district.
259	(2) (a) The Legislature shall adopt a State Fire Code by enacting legislation that adopts
260	a nationally recognized fire code with any modifications.
261	(b) Legislation [enacted under this] described in Subsection (2)(a) shall state that [it]
262	the legislation takes effect on the July 1 after the day on which the legislation is enacted, unless
263	otherwise stated in the legislation.
264	(c) Subject to Subsection [(5)] (6), a State Fire Code adopted by the Legislature is the
265	State Fire Code until in accordance with this section the Legislature adopts a new State Fire
266	Code by:
267	(i) adopting a new State Fire Code in its entirety; or
268	(ii) amending or repealing one or more provisions of the State Fire Code.
269	(3) (a) Except as provided in Subsection (3)(b), for each update of a nationally
270	recognized fire code, the board shall prepare a report described in Subsection (4).
271	(b) For the provisions of a nationally recognized fire code that apply only to detached
272	one- and two-family dwellings and townhouses not more than three stories above grade plane
273	in height with separate means of egress and their accessory structures, the board shall:

274	(i) prepare a report described in Subsection (4) in 2024 and, thereafter, for every third
275	update of the nationally recognized fire code; and
276	(ii) not prepare a report described in Subsection (4) in 2018 or 2021.
277	(4) (a) In accordance with Subsection (3), on or before September 1 of the same year as
278	the year designated in the title of an update of a nationally recognized fire code, the board shall
279	prepare and submit a report to the Business and Labor Interim Committee that:
280	(i) states whether the board recommends the Legislature adopt the update with any
281	modifications; and
282	(ii) describes the costs and benefits of each recommended change in the update or in
283	any modification.
284	(b) After the Business and Labor Interim Committee receives the report described in
285	Subsection (4)(a), the Business and Labor Interim Committee shall:
286	(i) study the recommendations during the remainder of the interim; and
287	(ii) if the Business and Labor Interim Committee decides to recommend legislative
288	action to the Legislature, prepare legislation for consideration by the Legislature in the next
289	general session.
290	[(3)] (5) (a) (i) The board shall, by no later than November 30 of each year in which the
291	board is not required to submit a report described in Subsection (4), recommend in a report to
292	the Business and Labor Interim Committee whether the Legislature should[: (i)] amend or
293	repeal one or more provisions of the State Fire Code[; or].
294	[(ii) in a year of a regularly scheduled update of a nationally recognized fire code,
295	adopt with any modifications the nationally recognized fire code.]
296	(ii) As part of a recommendation described in Subsection (5)(a)(i), the board shall
297	describe the costs and benefits of each proposed amendment or repeal.
298	(b) The board may recommend legislative action related to the State Fire Code:
299	(i) on its own initiative; or
300	(ii) upon the receipt of a request by a city, county, or fire protection district that the
301	board recommend legislative action related to the State Fire Code.
302	(c) Within 45 days after [receipt of] the day on which the board receives a request
303	under Subsection [(3)] (5)(b), the board shall direct the division to convene an informal hearing
304	concerning the request.

305 (d) The board shall conduct a hearing under this section in accordance with the rules of 306 the board. 307 (e) The board shall decide whether to include the request in the report [required under] 308 described in Subsection [(3)] (5)(a) [whether to recommend the legislative action raised by a 309 request]. 310 (f) (i) Within 15 days [following the completion of a hearing of the board under this Subsection (3), the board after the day on which the board conducts a hearing, the board shall 311 direct the division to notify the entity that made the request of the board's decision regarding 312 313 the request. 314 (ii) The division shall provide the notice: 315 [(i)] (A) in writing; and 316 [(ii)] (B) in a form prescribed by the board. 317 [(4)] (g) If the Business and Labor Interim Committee decides to recommend legislative action to the Legislature, the Business and Labor Interim Committee shall prepare 318 319 legislation for consideration by the Legislature in the next general session that, if passed by the 320 Legislature, would [: (a) adopt a new State Fire Code in its entirety; or (b)] amend or repeal one 321 or more provisions of the State Fire Code. 322 [(5)] (6) (a) Notwithstanding [Subsection (3)] the provisions of this section, the board 323 may, in accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, amend a State Fire Code if the board determines that waiting for legislative action in the next general 324 325 legislative session would: 326 (i) cause an imminent peril to the public health, safety, or welfare; or 327 (ii) place a person in violation of federal or other state law. 328 (b) If the board amends a State Fire Code in accordance with this Subsection [(5)] (6), 329 the board shall: 330 (i) publish the State Fire Code with the amendment; and 331 (ii) notify the Business and Labor Interim Committee of the adoption, including a copy 332 of an analysis by the board identifying specific reasons and justifications for its findings. 333 (c) If not formally adopted by the Legislature at [its] the next annual general session, an 334 amendment to a State Fire Code adopted under this Subsection [(5)] (6) is repealed on the July 335 1 immediately following the next annual general session that follows the adoption of the

330	amendment.
337	[(6)] (7) (a) [A] Except as provided in Subsection (7)(b), a legislative body of a
338	political subdivision may enact an ordinance in the political subdivision's fire code that is more
339	restrictive [in its fire code requirements] than the State Fire Code:
340	(i) in order to meet a public safety need of the political subdivision; and
341	(ii) subject to the requirements of [this] Subsection [(6)] (7)(c).
342	(b) Except as provided in Subsections (7)(c) and (10), or as expressly provided in state
343	law, a political subdivision may not, after December 1, 2016, enact or enforce a rule or
344	ordinance that applies to a structure built in accordance with the International Residential Code
345	as adopted in the State Construction Code, that is more restrictive than the State Fire Code.
346	(c) A political subdivision may adopt:
347	(i) the appendices of the International Fire Code, 2015 edition; and
348	(ii) a fire sprinkler ordinance in accordance with Section 15A-5-203.
349	[(b)] (d) A legislative body of a political subdivision that enacts an ordinance under
350	[this section on or after July 1, 2010] Subsection (7)(a) shall:
351	(i) notify the board in writing at least 30 days before the day on which the legislative
352	body enacts the ordinance and include in the notice a statement as to the proposed subject
353	matter of the ordinance; and
354	(ii) after the legislative body enacts the ordinance, report to the board before the board
355	makes the report required under Subsection $[\frac{(6)(e)}{(7)(e)}]$ , including providing the board:
356	(A) a copy of the ordinance enacted under this Subsection $[(6)]$ (7); and
357	(B) a description of the public safety need that is the basis of enacting the ordinance.
358	[(e)] (e) The board shall submit to the Business and Labor Interim Committee each
359	year with the recommendations submitted in accordance with Subsection $[(3)]$ $(4)$ :
360	(i) a list of the ordinances enacted under this Subsection [(6)] (7) during the fiscal year
361	immediately [proceeding] preceding the report; and
362	(ii) recommendations, if any, for legislative action related to an ordinance enacted
363	under this Subsection [ <del>(6)</del> ] <u>(7)</u> .
364	$[\frac{d}{d}]$ (i) The state fire marshal shall keep an indexed copy of an ordinance enacted
365	under this Subsection [ <del>(6)</del> ] <u>(7)</u> .
366	(ii) The state fire marshal shall make a copy of an ordinance enacted under this

367	Subsection [ <del>(6)</del> ] <u>(7)</u> available on request.
368	[(e)] (g) The board may make rules in accordance with Title 63G, Chapter 3, Utah
369	Administrative Rulemaking Act, to establish procedures for a legislative body of a political
370	subdivision to follow to provide the notice and report required under this Subsection [(6)] (7).
371	(8) Except as provided in Subsections (9) and (10), or as expressly provided in state
372	law, a state executive branch entity may not, after December 1, 2016, adopt or enforce a rule or
373	requirement that:
374	(a) is more restrictive than the State Fire Code; and
375	(b) applies to detached one- and two-family dwellings and townhouses not more than
376	three stories above grade plane in height with a separate means of egress and their accessory
377	structures.
378	(9) A state government entity may adopt a rule or requirement regarding a residential
379	occupancy that is regulated by:
380	(a) the State Fire Prevention Board;
381	(b) the Department of Health; or
382	(c) the Department of Human Services.
383	(10) A state executive branch entity or political subdivision of the state may enforce a
384	federal law or regulation.
385	Section 3. Section <b>15A-2-102</b> is amended to read:
386	15A-2-102. Definitions.
387	As used in this chapter and Chapter 3, Statewide Amendments Incorporated as Part of
388	State Construction Code, and Chapter 4, Local Amendments Incorporated as Part of State
389	Construction Code:
390	(1) "HUD Code" means the Federal Manufactured Housing Construction and Safety
391	Standards Act, as issued by the Department of Housing and Urban Development and published
392	in 24 C.F.R. Parts 3280 and 3282 (as revised April 1, 1990).
393	(2) "IBC" means the edition of the International Building Code adopted under Section
394	15A-2-103.
395	(3) "IEBC" means the edition of the International Existing Building Code adopted
396	under Section 15A-2-103.
397	[(3)] (4) "IECC" means the edition of the International Energy Conservation Code

398	adopted under Section 15A-2-103.
399	[(4)] (5) "IFGC" means the edition of the International Fuel Gas Code adopted under
400	Section 15A-2-103.
401	[(5)] (6) "IMC" means the edition of the International Mechanical Code adopted under
402	Section 15A-2-103.
403	[(6)] (7) "IPC" means the edition of the International Plumbing Code adopted under
404	Section 15A-2-103.
405	[ <del>(7)</del> ] (8) "IRC" means the edition of the International Residential Code adopted under
406	Section 15A-2-103.
407	[ <del>(8)</del> ] <u>(9)</u> "NEC" means the edition of the National Electrical Code adopted under
408	Section 15A-2-103.
409	[ <del>(9)</del> ] <u>(10)</u> "UWUI" means the edition of the Utah Wildland Urban Interface Code
410	adopted under Section 15A-2-103.
411	Section 4. Section <b>15A-2-103</b> is amended to read:
412	15A-2-103. Specific editions adopted of construction code of a nationally
413	recognized code authority.
414	(1) Subject to the other provisions of this part, the following construction codes are
415	incorporated by reference, and together with the amendments specified in Chapter 3, Part 3,
416	Statewide Amendments to International Plumbing Code, and Chapter 4, Local Amendments
417	Incorporated as Part of State Construction Code, are the construction standards to be applied to
418	building construction, alteration, remodeling, and repair, and in the regulation of building
419	construction, alteration, remodeling, and repair in the state:
420	(a) the [2012] 2015 edition of the International Building Code, including Appendix J,
421	issued by the International Code Council;
422	(b) the [2012] 2015 edition of the International Residential Code, issued by the
423	International Code Council;
424	(c) the [2012] 2015 edition of the International Plumbing Code, issued by the
425	International Code Council;
426	(d) the [2012] 2015 edition of the International Mechanical Code, issued by the
427	International Code Council;
428	(e) the [2012] 2015 edition of the International Fuel Gas Code, issued by the

429	International Code Council;
430	(f) the [2011] 2014 edition of the National Electrical Code, issued by the National Fire
431	Protection Association;
432	(g) the [2012] 2015 edition of the International Energy Conservation Code, issued by
433	the International Code Council;
434	(h) the 2015 edition of the International Existing Building Code, issued by the
435	International Code Council;
436	[(h)] (i) subject to Subsection 15A-2-104(2), the HUD Code;
437	[(i)] (j) subject to Subsection 15A-2-104(1), Appendix E of the [2012] 2015 edition of
438	the International Residential Code, issued by the International Code Council; and
439	[(j)] (k) subject to Subsection 15A-2-104(1), the 2005 edition of the NFPA 225 Model
440	Manufactured Home Installation Standard, issued by the National Fire Protection Association.
441	(2) Consistent with Title 65A, Chapter 8, Management of Forest Lands and Fire
442	Control, the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface Code,
443	issued by the International Code Council, with the alternatives or amendments approved by the
444	Utah Division of Forestry, as a construction code that may be adopted by a local compliance
445	agency by local ordinance or other similar action as a local amendment to the codes listed in
446	this section.
447	Section 5. Section 15A-2-104 is amended to read:
448	15A-2-104. Installation standards for manufactured housing.
449	(1) The following are the installation standards for manufactured housing for new
450	installations or for existing manufactured or mobile homes that are subject to relocation,
451	building alteration, remodeling, or rehabilitation in the state:
452	(a) The manufacturer's installation instruction for the model being installed is the
453	primary standard.
454	(b) If the manufacturer's installation instruction for the model being installed is not
455	available or is incomplete, the following standards apply:
456	(i) Appendix E of the $[2012]$ 2015 edition of the IRC, as issued by the International
457	Code Council for installations defined in Section AE101 of Appendix E; or
458	(ii) if an installation is beyond the scope of the $[2012]$ 2015 edition of the IRC as
459	defined in Section AE101 of Appendix E, the 2005 edition of the NFPA 225 Model

- 460 Manufactured Home Installation Standard, issued by the National Fire Protection Association.
- 461 (c) A manufacturer, dealer, or homeowner is permitted to design for unusual
- installation of a manufactured home not provided for in the manufacturer's standard installation
- instruction, Appendix E of the [2012] 2015 edition of the IRC, or the 2005 edition of the
- NFPA 225, if the design is approved in writing by a professional engineer or architect licensed
- in Utah.
- (d) For a mobile home built before June 15, 1976, the mobile home shall also comply
- with the additional installation and safety requirements specified in Chapter 3, Part 8,
- Installation and Safety Requirements for Mobile Homes Built Before June 15, 1976.
- 469 (2) Pursuant to the HUD Code Section 604(d), a manufactured home may be installed
- in the state that does not meet the local snow load requirements as specified in Chapter 3, Part
- 2, Statewide Amendments to International Residential Code, except that the manufactured
- 472 home shall have a protective structure built over the home that meets the IRC and the snow
- load requirements under Chapter 3, Part 2, Statewide Amendments to International Residential
- 474 Code.
- Section 6. Section **15A-3-102** is amended to read:
- 476 15A-3-102. Amendments to Chapters 1 through 3 of IBC.
- 477 (1) IBC, Section 106, is deleted.
- 478 (2) [<del>(a)</del>] In IBC, Section 110, a new section is added as follows: "[<del>110.3.5</del>] 110.3.5.1,
- Weather-resistant exterior wall envelope. An inspection shall be made of the weather-resistant
- 480 exterior wall envelope as required by Section 1403.2, and flashing as required by Section
- 481 1405.4 to prevent water from entering the weather-resistive barrier."
- 482 [(b) The remaining sections of IBC, Section 110, are renumbered as follows: 110.3.6,
- 483 Lath or gypsum board inspection; 110.3.7, Fire- and smoke-resistant penetrations; 110.3.8,
- 484 Energy efficiency inspections; 110.3.9, Other inspections; 110.3.10, Special inspections; and
- 485 110.3.11, Final inspection.
- 486 (3) IBC, Section 115.1, is deleted and replaced with the following: "115.1 Authority.
- Whenever the building official finds any work regulated by this code being performed in a
- 488 manner either contrary to the provisions of this code or other pertinent laws or ordinances or is
- dangerous or unsafe, the building official is authorized to stop work."
- 490 (4) In IBC, Section 202, the following definition is added for Ambulatory Surgical

491 Center: "AMBULATORY SURGICAL CENTER. A building or portion of a building licensed 492 by the Utah Department of Health where procedures are performed that may render patients 493 incapable of self preservation where care is less than 24 hours. See Utah Administrative Code 494 R432-13." 495 (5) In IBC, Section 202, the definition for Foster Care Facilities is modified by 496 changing the word "Foster" to "Child." 497 (6) In IBC, Section 202, the definition for "[F]Record Drawings" is modified by deleting the words "a fire alarm system" and replacing them with "any fire protection system". 498 499 (7) In IBC, Section 202, the following definition is added for Residential 500 Treatment/Support Assisted Living Facility: "RESIDENTIAL TREATMENT/SUPPORT 501 ASSISTED LIVING FACILITY. See Section 308.1.2." 502 (8) In IBC, Section 202, the following definition is added for Type I Assisted Living 503 Facility: "TYPE I ASSISTED LIVING FACILITY. See Section 308.1.2." 504 (9) In IBC, Section 202, the following definition is added for Type II Assisted Living 505 Facility: "TYPE II ASSISTED LIVING FACILITY. See Section 308.1.2." 506 [(10) In the list in IBC, Section 304.1, the following words are added after the words "Ambulatory care facilities": "where four or more care recipients are rendered incapable of self 507 508 preservation." 509 [(11)] (10) In IBC, Section 305.2, the words "child care centers," are inserted after the 510 word "supervision," and the following sentence is added at the end of the paragraph: "See 511 Section 425 for special requirements for Day Care." 512 [(12)] (11) In IBC, Section 305.2.2 and 305.2.3, the word "five" is deleted and replaced 513 with the word "four" in both places. 514 [(13)] (12) A new IBC Section 305.2.4 is added as follows: "305.2.4 Child Day Care --515 Residential Certificate or a Family License. Areas used for child day care purposes with a 516 Residential Certificate R430-50 or a Family License, as defined in Utah Administrative Code, 517 R430-90, Licensed Family Child Care, may be located in a Group R-2 or R-3 occupancy as 518 provided in Section 310.5 or shall comply with the International Residential Code in 519 accordance with Section R101.2." 520 [<del>(14)</del>] (13) A new IBC Section 305.2.5 is added as follows: "305.2.5 Child Care

Centers. Areas used for Hourly Child Care Centers, as defined in Utah Administrative Code.

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- 522 R430-60, Child Care Center as defined in Utah Administrative Code, R430-100, or Out of 523 School Time Programs, as defined in Utah Administrative Code, R430-70, may be classified as 524 accessory occupancies." 525 (14) In IBC, Table 307.1(1), footnote "d" is added to the row for Consumer fireworks 526 in the column titled STORAGE - Solid Pounds (cubic feet). 527 (15) In IBC, Section 308.2, the word "FOSTER" is deleted and replaced with "CHILD." 528 529 [(15)] (16) A new IBC Section 308.2.1 is added as follows: "308.2.1 Assisted living 530 facilities and related occupancies. The following words and terms shall, for the purposes of 531 this section and as used elsewhere in this code, have the meanings shown herein. 532 TYPE I ASSISTED LIVING FACILITY. A residential facility licensed by the Utah 533 Department of Health that provides a protected living arrangement for ambulatory, 534 non-restrained persons who are capable of achieving mobility sufficient to exit the facility 535 without the assistance of another person. 536 Occupancies. Limited capacity, type I assisted living facilities with two to five residents shall 537 be classified as R-3 occupancies. Small, type I assisted living facilities with six to sixteen 538 residents shall be classified as R-4 occupancies. Large, type I assisted living facilities with 539 over sixteen residents shall be classified as I-1 occupancies. 540 TYPE II ASSISTED LIVING FACILITY. A residential facility licensed by the Utah 541 Department of Health that provides an array of coordinated supportive personal and health care 542 services to residents who meet the definition of semi-independent. 543 Semi-Independent. A person who is: 544 A. Physically disabled but able to direct his or her own care; or 545 B. Cognitively impaired or physically disabled but able to evacuate from the facility with the 546 physical assistance of one person. 547 Occupancies. Limited capacity, type II assisted living facilities with two to five residents shall 548 be classified as R-4 occupancies. Small, type II assisted living facilities with six to sixteen
- treatment/support assisted living facility which creates a group living environment for four or

over sixteen residents shall be classified as I-2 occupancies.

residents shall be classified as I-1 occupancies. Large, type II assisted living facilities with

RESIDENTIAL TREATMENT/SUPPORT ASSISTED LIVING FACILITY. A residential

553	more residents licensed by the Utah Department of Human Services, and provides a protected
554	living arrangement for ambulatory, non-restrained persons who are capable of achieving
555	mobility sufficient to exit the facility without the physical assistance of another person."
556	[(16)] (17) In IBC, Section 308.3, the words "(see Section 308.2.1)" are added after the
557	words "assisted living facilities["]."
558	[(17)] (18) In IBC, Section $[308.3.1]$ 308.3.4, all of the words after the first
559	International Residential Code are deleted.
560	[(18)] (19) In IBC, Section 308.4, the following changes are made:
561	(a) The words "five persons" are deleted and replaced with the words "three persons."
562	(b) The words "foster care facilities" are deleted and replaced with "child care
563	facilities."
564	(c) The words "(both intermediate care facilities and skilled nursing facilities)" are
565	added after "nursing homes."
566	[(d) The words "Ambulatory Surgical Centers with five or more operating rooms" are
567	added to the list.]
568	$[\frac{(19)}{20}]$ In IBC, Section $[\frac{308.4.1}{200}]$ 308.4.2, the word "five" is deleted and replaced
569	with the word "three" in both places.
570	[(20)] (21) In IBC, Section 308.6, the word "five" is deleted and replaced with the
571	word "four["]."
572	[(21)] (22) In IBC, Section 308.6.1, the following changes are made:
573	(a) The word "five" is deleted and replaced with the word "four["]."
574	(b) The words "2-1/2 years or less of age" are deleted and replaced with "under the age
575	of two["]."
576	(c) The following sentence is added at the end: "See Section [425] 427 for special
577	requirements for Day Care."
578	[ <del>(22)</del> ] (23) In IBC, Sections 308.6.3 and 308.6.4, the word "five" is deleted and
579	replaced with the word "four" in both places and the following sentence is added at the end:
580	"See Section [425] 427 for special requirements for Day Care."
581	[(23)] (24) In IBC, Section 310.5, the words "and single family dwellings complying
582	with the IRC" are added after "Residential occupancies["]."
583	[(24)] (25) In IBC, Section 310.5.1, the words "other than Child Care" are inserted

- after the word "dwelling" in the first sentence and the following sentence is added at the end:
- "See Section [425] 427 for special requirements for Child Day Care."
- 586  $\left[\frac{(25)}{(26)}\right]$  A new IBC Section  $\left[\frac{310.5.2}{310.5.3}\right]$  is added as follows: " $\left[\frac{310.5.2}{(26)}\right]$
- 587 <u>310.5.3</u> Child Care. Areas used for child care purposes may be located in a residential
- dwelling unit under all of the following conditions and Section [425] 427:
- 1. Compliance with Utah Administrative Code, R710-8, Day Care Rules, as enacted under the
- authority of the Utah Fire Prevention Board.
- 2. Use is approved by the Utah Department of Health, as enacted under the authority of the
- 592 Utah Code, Title 26, Chapter 39, Utah Child Care Licensing Act, and in any of the following
- 593 categories:
- a. Utah Administrative Code, R430-50, Residential Certificate Child Care.
- b. Utah Administrative Code, R430-90, Licensed Family Child Care.
- 596 3. Compliance with all zoning regulations of the local regulator."
- 597  $\left[\frac{(26)}{2}\right]$  In IBC, Section 310.6, the words "(see Section 308.2.1)" are added after
- "assisted living facilities"."
- Section 7. Section **15A-3-103** is amended to read:
- 600 15A-3-103. Amendments to Chapters 4 through 6 of IBC.
- 601 (1) IBC Section 403.5.5 is deleted.
- [(2) IBC Section (F)406.5.8 is deleted and replaced with the following: "(F)406.5.8
- 603 Standpipe system. An open parking garage shall be equipped with an approved Class I manual
- standpipe system when fire department access is not provided for firefighting operations to
- within 150 feet of all portions of the open parking garage as measured from the approved fire
- 606 department vehicle access.]
- 607 [Exception: Open parking garages equipped throughout with an automatic sprinkler system in
- accordance with Section 903.3.1.1 and a standpipe system is not required by Section 905.3.1."
- [(3) A new IBC Section (F)406.5.8.1 is added as follows: "(F)406.5.8.1 Installation
- 610 requirements. Class I manual standpipe shall be designed and installed in accordance with
- 611 Section 905 and NFPA 14. Class I manual standpipe shall be accessible throughout the
- 612 parking garage such that all portions of the parking structure are protected within 150 feet of a
- 613 hose connection."
- [(4)] (2) In IBC, Section 422.2, a new paragraph is added as follows: "422.2

- 615 Separations: Ambulatory care facilities licensed by the Utah Department of Health shall be
- separated from adjacent tenants with a fire [barrier] partition having a minimum one hour
- 617 fire-resistance rating. Any level below the level of exit discharge shall be separated from the
- level of exit discharge by a horizontal assembly having a minimum one hour fire-resistance
- 619 rating.
- 620 Exception: A fire barrier is not required to separate the level of exit discharge when:
- 1. Such levels are under the control of the Ambulatory Care Facility.
- 622 2. Any hazardous spaces are separated by horizontal assembly having a minimum one hour
- 623 fire-resistance rating."
- 624  $\left[\frac{(5)}{(5)}\right]$  (3) A new IBC Section  $\left[\frac{425}{(5)}\right]$  427, Day Care, is added as follows:
- 625 "[425.1] 427.1 Detailed Requirements. In addition to the occupancy and construction
- requirements in this code, the additional provisions of this section shall apply to all Day Care in
- accordance with Utah Administrative Code R710-8 Day Care Rules.
- 628 [<del>425.2</del>] 427.2 Definitions.
- 629 [425.2.1] 427.2.1 Authority Having Jurisdiction (AHJ): State Fire Marshal, his duly authorized
- deputies, or the local fire enforcement authority code official.
- [425.2.2] 427.2.2 Day Care Facility: Any building or structure occupied by clients of any age
- who receive custodial care for less than 24 hours by individuals other than parents, guardians,
- relatives by blood, marriage or adoption.
- [425.2.3] 427.2.3 Day Care Center: Providing care for five or more clients in a place other than
- the home of the person cared for. This would also include Child Care Centers, Out of School
- Time or Hourly Child Care Centers licensed by the Department of Health.
- 637 [425.2.4] 427.2.4 Family Day Care: Providing care for clients listed in the following two
- 638 groups:
- 639 [425.2.4.1] 427.2.4.1 Type 1: Services provided for five to eight clients in a home. This would
- also include a home that is certified by the Department of Health as Residential Certificate
- 641 Child Care or licensed as Family Child Care.
- [425.2.4.2] 427.2.4.2 Type 2: Services provided for nine to sixteen clients in a home with
- sufficient staffing. This would also include a home that is licensed by the Department of
- Health as Family Child Care.
- [425.2.5] 427.2.5 R710-8: Utah Administrative Code, R710-8, Day Care Rules, as enacted

- under the authority of the Utah Fire Prevention Board.
- 647 [425.3.] 427.3 Family Day Care.
- [425.3.1] 427.3.1 Family Day Care units shall have on each floor occupied by clients, two
- separate means of egress, arranged so that if one is blocked the other will be available.
- [425.3.2] 427.3.2 Family Day Care units that are located in the basement or on the second story
- shall be provided with two means of egress, one of which shall discharge directly to the
- outside.
- [425.3.2.1] 427.3.2.1 Residential Certificate Child Care and Licensed Family Child Care with
- five to eight clients in a home, located on the ground level or in a basement, may use an
- emergency escape or rescue window as allowed in IFC, Chapter 10, Section [1029] 1030.
- 656 [425.3.3] 427.3.3 Family Day Care units shall not be located above the second story.
- [425.3.4] 427.3.4 In Family Day Care units, clients under the age of two shall not be located
- above or below the first story.
- [425.3.4.1] 427.3.4.1 Clients under the age of two may be housed above or below the first story
- where there is at least one exit that leads directly to the outside and complies with IFC, Section
- 661  $\left[\frac{1009}{1011}\right]$  or Section  $\left[\frac{1010}{1012}\right]$  or Section  $\left[\frac{1026}{1027}\right]$ .
- [425.3.5] 427.3.5 Family Day Care units located in split entry/split level type homes in which
- stairs to the lower level and upper level are equal or nearly equal, may have clients housed on
- both levels when approved by the AHJ.
- [425.3.6] 427.3.6 Family Day Care units shall have a portable fire extinguisher on each level
- occupied by clients, which shall have a classification of not less than 2A:10BC, and shall be
- serviced in accordance with NFPA, Standard 10, Standard for Portable Fire Extinguishers.
- [425.3.7] 427.3.7 Family Day Care units shall have single station smoke detectors in good
- operating condition on each level occupied by clients. Battery operated smoke detectors shall
- be permitted if the facility demonstrates testing, maintenance, and battery replacement to insure
- 671 continued operation of the smoke detectors.
- [425.3.8] 427.3.8 Rooms in Family Day Care units that are provided for clients to sleep or nap,
- shall have at least one window or door approved for emergency escape.
- [425.3.9] 427.3.9 Fire drills shall be conducted in Family Day Care units quarterly and shall
- include the complete evacuation from the building of all clients and staff. At least annually, in
- 676 Type I Family Day Care units, the fire drill shall include the actual evacuation using the escape

- or rescue window, if one is used as a substitute for one of the required means of egress.
- 678 [425.4] 427.4 Day Care Centers.
- 679 [425.4.1] 427.4.1 Day Care Centers shall comply with either I-4 requirements or E
- requirements of the IBC, whichever is applicable for the type of Day Care Center.
- [425.4.2] 427.4.2 Emergency Evacuation Drills shall be completed as required in IFC, Chapter
- 682 4, Section 405.
- [425.4.3] 427.4.3 Location at grade. Group E child day care centers shall be located at the
- level of exit discharge.
- [425.4.3.1] 427.4.3.1 Child day care spaces for children over the age of 24 months may be
- located on the second floor of buildings equipped with automatic fire protection throughout
- and an automatic fire alarm system.
- [425.4.4] 427.4.4 Egress. All Group E child day care spaces with an occupant load of more
- than 10 shall have a second means of egress. If the second means of egress is not an exit door
- leading directly to the exterior, the room shall have an emergency escape and rescue window
- 691 complying with Section [<del>1029</del>] <u>1030</u>.
- 692 [425.4.5] 427.4.5 All Group E Child Day Care Centers shall comply with Utah Administrative
- 693 Code, R430-100 Child Care Centers, R430-60 Hourly Child Care Centers, and R430-70 Out of
- 694 School Time.
- 695 [425.5] 427.5 Requirements for all Day Care.
- 696 [425.5.1] 427.5.1 Heating equipment in spaces occupied by children shall be provided with
- partitions, screens, or other means to protect children from hot surfaces and open flames.
- 698 [425.5.2] 427.5.2 A fire escape plan shall be completed and posted in a conspicuous place. All
- staff shall be trained on the fire escape plan and procedure."
- 700 [(6)] (4) In IBC, Section [504.2] 504.4, a new section is added as follows: ["504.2.1]
- 701 "504.4.1 Notwithstanding the exceptions to Section 504.2, Group I-2 Assisted Living Facilities
- shall be allowed [to be two stories of] on each level of a two-story building of Type V-A
- 703 construction when all of the following apply:
- 1. All secured units are located at the level of exit discharge in compliance with Section
- 705 [1008.1.9.3] 1010.1.9.3 as amended;
- 706 2. The total combined area of both stories shall not exceed the total allowable area for a
- one-story building; and

- 708 3. All other provisions that apply in Section 407 have been provided."
- Section 8. Section **15A-3-104** is amended to read:

### 710 15A-3-104. Amendments to Chapters 7 through 9 of IBC.

- 711 (1) IBC, Section (F)901.8, is deleted and replaced with the following: "(F)901.8 Pump
- and riser room size. Fire pump and automatic sprinkler system riser rooms shall be designed
- vith adequate space for all installed equipment necessary for the installation and to provide
- sufficient working space around the stationary equipment. Clearances around equipment shall
- be in accordance with manufacturer requirements and not less than the following minimum
- 716 elements:
- 717 901.8.1 A minimum clear and unobstructed distance of 12-inches shall be provided from the
- 718 installed equipment to the elements of permanent construction.
- 719 901.8.2 A minimum clear and unobstructed distance of 12-inches shall be provided between
- all other installed equipment and appliances.
- 901.8.3 A clear and unobstructed width of 36-inches shall be provided in front of all installed
- equipment and appliances, to allow for inspection, service, repair or replacement without
- removing such elements of permanent construction or disabling the function of a required
- 724 fire-resistance-rated assembly.
- 725 901.8.4 Automatic sprinkler system riser rooms shall be provided with a clear and
- unobstructed passageway to the riser room of not less than 36-inches, and openings into the
- room shall be clear and unobstructed, with doors swinging in the outward direction from the
- 728 room and the opening providing a clear width of not less than 34-inches and a clear height of
- the door opening shall not be less than 80-inches.
- 730 901.8.5 Fire pump rooms shall be provided with a clear and unobstructed passageway to the
- fire pump room of not less than 72-inches, and openings into the room shall be clear,
- unobstructed and large enough to allow for the removal of the largest piece of equipment, with
- doors swinging in the outward direction from the room and the opening providing a clear width
- of not less than 68-inches and a clear height of the door opening shall not be less than
- 735 80-inches."
- 736 (2) In IBC, Section (F)903.2.2, the words "the entire floor" are deleted and replaced
- with "a building" and the last paragraph is deleted.
- 738 (3) IBC, Section (F)903.2.4, condition 2, is deleted and replaced with the following: "2.

- A Group F-1 fire area is located more than three stories above the lowest level of fire
- 740 department vehicle access."
- 741 (4) IBC, Section (F)903.2.7, condition 2, is deleted and replaced with the following: "2.
- A Group M fire area is located more than three stories above the lowest level of fire department
- 743 vehicle access."
- 744 (5) IBC, Sections (F)903.2.8, (F)903.2.8.1, [and] (F)903.2.8.2, and (F)903.2.8.4, are
- deleted and replaced with the following: "(F)903.2.8 Group R. An automatic sprinkler system
- installed in accordance with Section 903.3 shall be provided throughout all buildings with a
- 747 Group R fire area.
- 748 Exceptions:
- 1. Detached one- and two-family dwellings and multiple single-family dwellings (townhouses)
- constructed in accordance with the International Residential Code For One- and Two-Family
- 751 Dwellings.
- 2. Single story Group R-1 occupancies with fire areas not more than 2,000 square feet that
- contain no installed plumbing or heating, where no cooking occurs, and constructed of Type
- 754 I-A, I-B, II-A, or II-B construction."
- 755 (6) IBC, Sections (F)903.2.8.3 and (F)903.2.8.3.1, are renumbered to (F)903.2.8.1 and
- 756 (F)903.2.8.1.1.
- 757 (7) IBC, Section (F)903.2.8.3.2, is renumbered to (F)903.2.8.1.2 and the following
- 758 exception is added:
- 759 [3.] "Exception: Group R-4 fire areas not more than 4,500 gross square feet and not containing
- more than 16 residents, provided the building is equipped throughout with an approved fire
- alarm system that is interconnected and receives its primary power from the building wiring
- and a commercial power system."
- 763 (8) IBC, Section (F)903.2.8.4, is deleted.
- 764 [(6)] (9) IBC, Section (F)903.2.9, condition 2, is deleted and replaced with the
- 765 following: "2. A Group S-1 fire area is located more than three stories above the lowest level
- of fire department vehicle access."
- 767  $\left[\frac{7}{(10)}\right]$  IBC, Section  $\left[\frac{(F)904.11}{(F)904.12}\right]$ , is deleted and replaced with the
- 768 following: "[(F)904.11] (F)904.12 Commercial cooking systems. The automatic
- 769 fire-extinguishing system for commercial cooking systems shall be of a type recognized for

770	protection of commercial cooking equipment and exhaust systems. Pre-engineered automatic
771	extinguishing systems shall be tested in accordance with UL 300 and listed and labeled for the
772	intended application. The system shall be installed in accordance with this code, its listing and
773	the manufacturer's installation instructions.
774	Exception: Factory-built commercial cooking recirculating systems that are tested in
775	accordance with UL 710B and listed, labeled, and installed in accordance with Section 304.1 of
776	the International Mechanical Code."
777	[ <del>(8)</del> ] (11) IBC, Sections [ <del>(F)904.11.3, (F)904.11.3.1, (F)904.11.4, and (F)904.11.4.1,</del> ]
778	(F)904.12.3, (F)904.12.3.1, (F)904.12.4, and (F)904.12.4.1, are deleted.
779	(12) In IBC, Section 905, a new subsection, Section (F)905.3.9, is added as follows:
780	"Open Parking Garages. Open parking garages shall be equipped with an approved
781	Class 1 manual standpipe system when fire department access is not provided for firefighting
782	operations to within 150 feet of all portions of the open parking garage as measured from the
783	approved fire department vehicle access. Class 1 manual standpipe shall be accessible
784	throughout the parking garage such that all portions of the parking structure are protected
785	within 150 feet of a hose connection."
786	(13) In IBC, Section (F)905.8, the exception is deleted and replaced with the following:
787	"Exception: Where subject to freezing and approved by the fire code official."
788	[ <del>(9)</del> ] <u>(14) In</u> IBC, Section (F)907.2.3 Group E[: <del>(a) The</del> ], the first sentence is deleted
789	and rewritten as follows: "A manual fire alarm system that [initiates] activates the occupant
790	notification system in accordance with Section (F)907.5 [and] shall be installed, in accordance
791	with Section (F)907.6 [shall be installed] and administrative rules made by the State Fire
792	Prevention Board in Group E occupancies."
793	[(b) In Exception number 3, starting on line five, the words "emergency voice/alarm
794	communication system" are deleted and replaced with "occupant notification system".]
795	[(10) In IBC, Section (F)908.7, the first sentence is deleted and replaced as follows:
796	"Groups R-1, R-2, R-3, R-4, I-1, and I-4 occupancies"; the exceptions are deleted and the
797	following sentence is added after the first sentence: "A minimum of one carbon monoxide
798	alarm shall be installed on each habitable level."]
799	[(11) In IBC, Section (F)908.7, the following new subsections are added:]
800	["(F)908.7.1 Interconnection. Where more than one carbon monoxide alarm is required to be

801	installed within Group R or I-1 occupancies, the carbon monoxide alarms shall be
802	interconnected in such a manner that the activation of one alarm will activate all of the alarms.
803	Physical interconnection of carbon monoxide alarms shall not be required where listed wireless
804	alarms are installed and all alarms sound upon activation of one alarm. The alarm shall be
805	clearly audible in all bedrooms over background noise levels with all intervening doors closed.]
806	[(F)908.7.2 Power source. In new construction, required carbon monoxide alarms shall receive
807	their primary power from the building wiring where such wiring is served from a commercial
808	source and shall be equipped with a battery backup. Carbon monoxide alarms with integral
809	strobes that are not equipped with battery backup shall be connected to an emergency electrical
810	system. Carbon monoxide alarms shall emit a signal when the batteries are low. Wiring shall
811	be permanent and without a disconnecting switch other than as required for overcurrent
812	protection.]
813	[Exception: Carbon monoxide alarms are not required to be equipped with battery backup
814	where they are connected to an emergency electrical system."]
815	[ <del>(12) IBC, Section (F)908.7.1, is renumbered to 908.7.3.</del> ]
816	(15) IBC, Sections (F)915 through (F)915.6, are deleted and replaced with the
817	following:
818	"(F)915 Where required.
819	Group I-1, I-2, I-4 and R occupancies located in a building containing a fuel-burning appliance
820	or in a building that has an attached garage shall be equipped with single-station carbon
821	monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL 2034 or
822	UL 2075 and be installed and maintained in accordance with NFPA 720 and the manufacturer's
823	instructions. An open parking garage, as defined in Chapter 2, or an enclosed parking garage,
824	ventilated in accordance with Section 404 of the International Mechanical Code, shall not be
825	considered an attached garage. A minimum of one carbon monoxide alarm shall be installed
826	on each habitable level.
827	(F)915.1 Interconnection.
828	Where more than one carbon monoxide alarm is required to be installed within Group I-1, I-2,
829	I-4, or R occupancies, the carbon monoxide alarm shall be interconnected in such a manner that
830	the activation of one alarm will activate all of the alarms. Physical interconnection of carbon
831	monoxide alarms shall not be required where listed wireless alarms are installed and all alarms

332	sound upon activation of one alarm. The alarm shall be clearly audible in all bedrooms over
333	background noise levels with all intervening doors closed.
334	(F)915.2 Power Source.
335	In new construction, required carbon monoxide alarms shall receive their primary power from
836	the building wiring where such wiring is served from a commercial source and shall be
337	equipped with a battery backup. Carbon monoxide alarms with integral strobes that are not
838	equipped with a battery backup shall be connected to an emergency electrical system. Carbon
339	monoxide alarms shall emit a signal when the batteries are low. Wiring shall be permanent and
340	without a disconnecting switch other than as required for overcurrent protection.
841	Exceptions.
342	1. Carbon monoxide alarms are not required to be equipped with a battery backup where they
343	are connected to an emergency electrical system.
344	2. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the
345	alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing
346	the structure, unless there is an attic, crawl space, or basement available that could provide
347	access for hard wiring without the removal of interior finishes.
348	(F)915.3 Group E.
349	A carbon monoxide detection system shall be installed in new buildings that contain Group E
350	occupancies in accordance with IFC, Chapter 9, Section 915. A carbon monoxide detection
351	system shall be installed in existing buildings that contain Group E occupancies in accordance
352	with IFC, Chapter 11, Section 1103.9.
353	(F)915.3.1 Where required.
354	In Group E occupancies, a carbon monoxide detection system shall be provided where a
355	<u>fuel-burning appliance</u> , a fuel-burning fireplace, or a fuel-burning forced air furnace is present.
356	(F)915.3.2 Detection equipment.
357	Each carbon monoxide detection system shall be installed in accordance with NFPA 720 and
358	the manufacturer's instructions and be listed as complying with, for single station detectors, UL
359	2034 and, for system detectors, UL 2075.
360	(F)915.3.3 Locations.
861	Each carbon monoxide detection system shall be installed in the locations specified in NFPA
862	<u>720.</u>

863	(F)915.3.4 Combination detectors.
864	A combination carbon monoxide/smoke detector is an acceptable alternative to a carbon
865	monoxide detection system if the combination carbon monoxide/smoke detector is listed in
866	accordance with UL 2075 and UL 268.
867	(F)915.3.5 Power source.
868	Each carbon monoxide detection system shall receive primary power from the building wiring
869	if the wiring is served from a commercial source. If primary power is interrupted, each carbon
870	monoxide detection system shall receive power from a battery. Wiring shall be permanent and
871	without a disconnecting switch other than that required for over current protection.
872	(F)915.3.6 Maintenance.
873	Each carbon monoxide detection system shall be maintained in accordance with NFPA 720. A
874	carbon monoxide detection system that becomes inoperable or begins to produce end of life
875	signals shall be replaced."
876	Section 9. Section <b>15A-3-105</b> is amended to read:
877	15A-3-105. Amendments to Chapters 10 through 12 of IBC.
878	(1) In IBC, Section [1008.1.9.6, the words "Group I-1 and" are added in the title and in
879	the first sentence before the words "Group I-2" and $\underline{1010.1.9.6}$ , a new number [8] $\underline{9}$ is added as
880	follows: "[8] $\underline{9}$ . The secure area or unit with special egress locks shall be located at the level of
881	exit discharge in Type V construction."
882	[(2) In IBC, Section 1008.1.9.7, a new number 7 is added as follows: "7. The secure
883	area or unit with delayed egress locks shall be located at the level of exit discharge in Type V
884	construction."]
885	$[(3)]$ (2) In IBC, Section $[1009.7.2]$ $\underline{1011.5.2}$ , exception $[5]$ $\underline{3}$ is deleted and replaced
886	with the following: " $[5]$ 3. In Group R-3 occupancies, within dwelling units in Group R-2
887	occupancies, and in Group U occupancies that are accessory to a Group R-3 occupancy, or
888	accessory to individual dwelling units in Group R-2 occupancies, the maximum riser height
889	shall be 8 inches (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The
890	minimum winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum
891	winder tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but
892	not more than 1.25 inches (32 mm) shall be provided on stairways with solid risers where the
893	tread depth is less than 10 inches (254 mm)."

894  $[\frac{(4)}{(4)}]$  (3) In IBC, Section  $[\frac{1009.15}{(4)}]$  1011.11, a new exception  $[\frac{6}{(4)}]$  5 is added as follows: 895 "[6] 5. In occupancies in Group R-3, as applicable in Section 101.2 and in occupancies in 896 Group U, which are accessory to an occupancy in Group R-3, as applicable in Section 101.2. 897 handrails shall be provided on at least one side of stairways consisting of four or more risers." 898  $[\frac{5}{100}]$  (4) In IBC, Section  $[\frac{1011.5}{1000}]$  1013.5, the words ", including when the building 899 may not be fully occupied[-]" are added at the end of the sentence. 900 [6] (5) IBC, Section [1024] 1025, is deleted. 901  $[\frac{7}{100}]$  (6) In IBC, Section  $[\frac{1028.12}{1000}]$  1029.14, exception 2 is deleted. 902 [<del>(8)</del>] (7) In IBC, Section 1109.8, the following words "shall be capable of operation 903 without a key and" are inserted in the second sentence between the words "lift" and "shall". 904 [(9)] (8) In IBC, Section 1208.4, subparagraph 1 is deleted and replaced with the 905 following: "1. The unit shall have a living room of not less than 165 square feet (15.3 m<sup>2</sup>) of 906 floor area. An additional 100 square feet (9.3 m<sup>2</sup>) of floor area shall be provided for each 907 occupant of such unit in excess of two." 908 Section 10. Section 15A-3-106 is amended to read: 909 15A-3-106. Amendments to Chapters 13 through 15 of IBC. 910 IBC, Chapters 13 [and], 14, and 15 are not amended. 911 Section 11. Section 15A-3-107 is amended to read: 912 15A-3-107. Amendments to Chapter 16 of IBC. 913 (1) In IBC, Table 1604.5, Risk Category III, in the sentence that begins "Group I-2," a new footnote c is added as follows: "c. Type II Assisted Living Facilities that are I-2 914 915 occupancy classifications in accordance with Section 308 shall be Risk Category II in this 916 table." 917 (2) In IBC, Section 1605.2, in the portion of the definition for the value of  $f_2$ , the words 918 "and 0.2 for other roof configurations" are deleted and replaced with the following: " $f_2 = 0.20 +$ 919 .025(A-5) for other configurations where roof snow load exceeds 30 psf; 920  $f_2 = 0$  for roof snow loads of 30 psf (1.44kN/m<sup>2</sup>) or less. 921 Where A = Elevation above sea level at the location of the structure (ft./1,000)." 922 (3) In IBC, Sections 1605.3.1 and 1605.3.2, exception 2 in each section is deleted and 923 replaced with the following: "2. Flat roof snow loads of 30 pounds per square foot (1.44 924 kNm<sup>2</sup>) or less need not be combined with seismic loads. Where flat roof snow loads exceed 30

- pounds per square foot (1.44 kNm<sup>2</sup>), the snow loads may be reduced in accordance with the
- 926 following in load combinations including both snow and seismic loads. W<sub>s</sub> as calculated
- below, shall be combined with seismic loads.
- 928  $W_s = (0.20 + 0.025(A-5))P_f$  is greater than or equal to 0.20  $P_f$ .
- 929 Where:
- $W_s = Weight of snow to be included in seismic calculations$
- A = Elevation above sea level at the location of the structure (ft./1,000)
- 932  $P_f = Design roof snow load, psf.$
- 933 For the purpose of this section, snow load shall be assumed uniform on the roof footprint
- 934 without including the effects of drift or sliding. The Importance Factor, I, used in calculating P<sub>f</sub>
- may be considered 1.0 for use in the formula for W<sub>s</sub>".
- 936 (4) IBC, Section 1608.1, is deleted and replaced with the following: "1608.1 General.
- 937 Except as modified in Sections 1608.1.1, 1608.1.2, and 1608.1.3, design snow loads shall be
- determined in accordance with Chapter 7 of ASCE 7, but the design roof load shall not be less
- 939 than that determined by Section 1607."
- 940 (5) A new IBC, Section 1608.1.1, is added as follows: "1608.1.1 Section 7.4.5 of
- Chapter 7 of ASCE 7 referenced in Section 1608.1 of the IBC is deleted and replaced with the
- 942 following: Section 7.4.5 Ice Dams and Icicles Along Eaves. Where ground snow loads exceed
- 943 75 psf, eaves shall be capable of sustaining a uniformly distributed load of 2p<sub>f</sub> on all
- overhanging portions. No other loads except dead loads shall be present on the roof when this
- 945 uniformly distributed load is applied. All building exits under down-slope eaves shall be
- 946 protected from sliding snow and ice."
- 947 (6) In IBC, Section 1608.1.2, a new section is added as follows: "1608.1.2 Utah Snow
- Loads. The snow loads specified in Table 1608.1.2(b) shall be used for the jurisdictions
- identified in that table. Otherwise, the ground snow load, P<sub>g</sub>, to be used in the determination of
- 950 design snow loads for buildings and other structures shall be determined by using the following
- formula:  $P_g = (P_o^2 + S^2(A-A_o)^2)^{0.5}$  for A greater than  $A_o$ , and  $P_g = P_o$  for A less than or equal to
- 952 A<sub>o</sub>.
- 953 WHERE:
- 954  $P_{\sigma}$  = Ground snow load at a given elevation (psf);
- 955  $P_0$  = Base ground snow load (psf) from Table No. 1608.1.2(a);

### 2nd Sub. (Gray) H.B. 316

- S = Change in ground snow load with elevation (psf/100 ft.) From Table No. 1608.1.2(a);
- A = Elevation above sea level at the site (ft./1,000);
- 958  $A_0 = Base ground snow elevation from Table 1608.1.2(a) (ft./1,000).$
- The building official may round the roof snow load to the nearest 5 psf. The ground snow
- load, P<sub>g</sub>, may be adjusted by the building official when a licensed engineer or architect submits
- data substantiating the adjustments.
- Where the minimum roof live load in accordance with Section [1607.11] 1607.12 is greater
- than the design roof snow load, such roof live load shall be used for design, however, it shall
- not be reduced to a load lower than the design roof snow load. Drifting need not be considered
- 965 for roof snow loads less than 20 psf."

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(7) IBC, Table 1608.1.2(a) and Table 1608.1.2(b), are added as follows:

967		"TABL	E NO.	1608.1.2(a)
968	STATE OF UTA	H - RE	GIONA	L SNOW LOAD FACTORS
969	COUNTY	P <sub>o</sub>	S	$A_{o}$
970	Beaver	43	63	6.2
971	Box Elder	43	63	5.2
972	Cache	50	63	4.5
973	Carbon	43	63	5.2
974	Daggett	43	63	6.5
975	Davis	43	63	4.5
976	Duchesne	43	63	6.5
977	Emery	43	63	6.0
978	Garfield	43	63	6.0
979	Grand	36	63	6.5
980	Iron	43	63	5.8
981	Juab	43	63	5.2
982	Kane	36	63	5.7
983	Millard	43	63	5.3
984	Morgan	57	63	4.5

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985	Piute	43	63	6.2
986	Rich	57	63	4.1
987	Salt Lake	43	63	4.5
988	San Juan	43	63	6.5
989	Sanpete	43	63	5.2
990	Sevier	43	63	6.0
991	Summit	86	63	5.0
992	Tooele	43	63	4.5
993	Uintah	43	63	7.0
994	Utah	43	63	4.5
995	Wasatch	86	63	5.0
996	Washington	29	63	6.0
997	Wayne	36	63	6.5
998	Weber	43	63	4.5

### TABLE NO. 1608.1.2(B)

## REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS<sup>1,2</sup>

The following jurisdictions require design snow load values that differ from the Equation in the Utah Snow Load Study.

County	City	Elevation	Ground Snow Load (psf)	Roof Snow Load (psf) <sup>6</sup>
Carbon	Price <sup>3</sup> All other county locations <sup>5</sup>	5550	43	30
Davis	Fruit Heights <sup>3</sup>	4500 - 4850	57	40
Emery	Green River <sup>3</sup>	4070	36	25
Garfield	Panguitch <sup>3</sup>	6600	43	30
Rich	Woodruff <sup>s</sup>	6315	57	40
	Laketown <sup>4</sup>	6000	57	40
	Garden City <sup>5</sup>			
	Randolph <sup>4</sup>	6300	57	40

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1008	San Juan	Monticello <sup>3</sup>	6820	50	35	
1009	Summit	Coalville <sup>3</sup>	5600	86	60	
		Kamas <sup>4</sup>	6500	114	80	
1010	Tooele	Tooele <sup>3</sup>	5100	43	30	
1011	Utah	Orem <sup>3</sup>	4650	43	30	
		Pleasant Grove <sup>4</sup>	5000	43	30	
		Provo <sup>5</sup>				
1012	Wasatch	Heber <sup>5</sup>				
1013	Washington	Leeds <sup>3</sup>	3460	29	20	
		Santa Clara <sup>3</sup>	2850	21	15	
		St. George <sup>3</sup>	2750	21	15	
		All other county locations <sup>5</sup>				
1014	Wayne	Loa <sup>3</sup>	7080	43	30	
1015	¹The IBC requ	aires a minimum live load - See	[ <del>1607.11.2</del> ] <u>Sectio</u>	on 1607.12.		
1016	<sup>2</sup> This table is informational only in that actual site elevations may vary. Table is only valid if site elevation is within 100 feet of the listed elevation. Otherwise, contact the local Building Official.					
1017	<sup>3</sup> Values adopt	ed from Table VII of the Utah S	now Load Study.			
1018	<sup>4</sup> Values based information.	on site-specific study. Contact	local Building Of	ficial for addition	nal	
1019	<sup>5</sup> Contact local	Building Official.				
1020	<sup>6</sup> Based on C <sub>e</sub>	$=1.0, C_t = 1.0 \text{ and } I_s = 1.0$ "				

(8) A new IBC, Section 1608.1.3, is added as follows: "1608.1.3 Thermal Factor. The value for the thermal factor,  $C_t$ , used in calculation of  $P_f$  shall be determined from Table 7.3 in ASCE 7.

Exception: Except for unheated structures, the value of  $C_t$  need not exceed 1.0 when ground snow load,  $P_g$  is calculated using Section 1608.1.2 as amended."

(9) IBC, Section 1608.2, is deleted and replaced with the following: "1608.2 Ground Snow Loads. The ground snow loads to be used in determining the design snow loads for roofs in states other than Utah are given in Figure 1608.2 for the contiguous United States and Table

- 1029 1608.2 for Alaska. Site-specific case studies shall be made in areas designated CS in figure
- 1030 1608.2. Ground snow loads for sites at elevations above the limits indicated in Figure 1608.2
- and for all sites within the CS areas shall be approved. Ground snow load determination for
- such sites shall be based on an extreme value statistical analysis of data available in the vicinity
- of the site using a value with a 2-percent annual probability of being exceeded (50-year mean
- recurrence interval). Snow loads are zero for Hawaii, except in mountainous regions as
- approved by the building official."
- 1036 (10) A new IBC, Section 1613.1.1, is added as follows: "1613.1.1 ASCE 12.7.2 and
- 1037 12.14.8.1 of Chapter 12 of ASCE 7 referenced in Section 1613.1, Definition of W, Item 4 is
- deleted and replaced with the following:
- 1039 4. Where the flat roof snow load, P<sub>f</sub>, exceeds 30 psf, the snow load included in seismic design
- shall be calculated, in accordance with the following formula:  $W_s = (0.20 + 0.025(A-5))P_f$  is
- greater than or equal to 0.20 P<sub>f</sub>.
- 1042 WHERE:
- $W_s = Weight of snow to be included in seismic calculations$
- 1044 A = Elevation above sea level at the location of the structure (ft./1,000)
- 1045  $P_f = Design roof snow load, psf.$
- For the purposes of this section, snow load shall be assumed uniform on the roof footprint
- without including the effects of drift or sliding. The Importance Factor, I, used in calculating P<sub>f</sub>
- may be considered 1.0 for use in the formula for W<sub>s</sub>."
- 1049 (11) A new IBC, Section [1613.5] 1613.7, is added as follows: "[1613.5] 1613.7
- ASCE 7, Section 13.5.6.2.2 paragraph (e) is modified to read as follows: (e) Penetrations shall
- have a sleeve or adapter through the ceiling tile to allow for free movement of at least 1 inch
- 1052 (25 mm) in all horizontal directions.
- 1053 Exceptions:
- 1054 1. Where rigid braces are used to limit lateral deflections.
- 1055 2. At fire sprinkler heads in frangible surfaces per NFPA 13."
- Section 12. Section **15A-3-108** is amended to read:
- 1057 15A-3-108. Amendments to Chapters 17 through 19 of IBC.
- 1058 (1) A new IBC, Section 1807.1.6.4, is added as follows: "1807.1.6.4 Empirical
- 1059 concrete foundation design. Group R, Division 3 Occupancies three stories or less in height,

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and Group U Occupancies, which are constructed in accordance with Section 2308, or with other methods employing repetitive wood-frame construction or repetitive cold-formed steel structural member construction, shall be permitted to have concrete foundations constructed in accordance with Table 1807.1.6.4."

(2) A new IBC, Table 1807.1.6.4 is added as follows:

"TABLE 1807.1.6.4							
EMPIRICAL FOUNDATION WALLS (1,7,8)							
Max. Height	Top Edge Support	Min. Thickness	Vertical Steel (2)	Horizontal Steel (3)	Steel at Openings (4)	Max. Lintel Length	Min. Lintel Length
2'(610 mm)	None	6"	(5)	2- #4 Bars	2-#4 Bars above 1-#4 Bar each side 1-#4 Bar below	2'(610 mm)	2" for each of opening width; min. 6"
3'(914 mm)	None	6"	#4@32"	3- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	2'(610 mm)	2" for each of opening width; min. 6"
4'(1,219 mm)	None	6"	#4@32"	4- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	3'(914 mm)	2" for each of opening width; min. 6"
6'(1,829 mm)	Floor or roof Diaphragm (6)	8"	#4@24"	5- #4 Bars	2-#4 Bars above 1-#4 Bar each side 1-#4 Bar below	6'(1,829 mm)	2" for each of opening width; min. 6"
8'(2,438 mm)	Floor or roof Diaphragm (6)	8"	#4@24"	6- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	6'(1,829 mm)	2" for each of opening width; min. 6"
9'(2,743 mm)	Floor or roof Diaphragm (6)	8"	#4@16"	7- #4 Bars	2-#4 Bars above 1-#4 Bar each side 1-#4 Bar below	6'(1,829 mm)	2" for each of opening width; min. 6"
Over 9'(2,7	743 mm), E	ngineering	required	for each co	lumn		
Footnotes:							
(1) Based on 3,000 psi (20.6 Mpa) concrete and 60,000 psi (414 Mpa) reinforcing steel.							

1077	(2) To be placed in the center of the wall, and extended from the footing to within three
	inches (76 mm) of the top of the wall; dowels of #4 bars to match vertical steel placement
	shall be provided in the footing, extending 24 inches (610 mm) into the foundation wall.
1078	(3) One bar shall be located in the top four inches (102 mm), one bar in the bottom four
	inches (102 mm) and the other bars equally spaced between. Such bar placement satisfies the
	requirements of Section 1805.9. Corner reinforcing shall be provided so as to lap 24 inches
	(610 mm).
1079	(4) Bars shall be placed within two inches (51 mm) of the openings and extend 24 inches
	(610 mm) beyond the edge of the opening; vertical bars may terminate three inches (76 mm)
	from the top of the concrete.
1080	(5) Dowels of #4 bar at 32 inches on center shall be provided in the footing, extending 18
	inches (457 mm) into the foundation wall.
1081	(6) Diaphragm shall conform to the requirements of Section 2308.
1082	(7) Footing shall be a minimum of nine inches thick by 20 inches wide.
1083	(8) Soil backfill shall be soil classification types GW, GP, SW, or SP, per Table 1610.1. Soil
	shall not be submerged or saturated in groundwater."
1084	[(3) In IBC, Section 1904.2, a new exception 1 is added as follows and the current
1085	exception is modified to be number 2.]
1086	[Exceptions:]
1087	["1. In ACI Table 4.3.1, for Exposure Class F1, change Maximum w/cm from 0.45 to
1088	0.5 and Minimum f'e from 4,500 psi to 3,000 psi."]
1089	[(4)] (3) A new IBC, Section $[1905.1.11]$ $[1905.1.9]$ , is added as follows: $["1905.1.11]$
1090	"1905.1.9 ACI 318, Table 4.2.1." Modify ACI 318, Table [4.2.1] 19.3.1.1 to read as follows:
1091	In the portion of the table designated as "Conditions", the <u>following</u> Exposure [categories]
1092	category and [classes are] class is deleted and replaced with the following:
1093	"F0: Concrete elements not exposed to freezing and thawing cycles to include footing and
1094	foundation elements that are completely buried in soil."
1095	[F1: Concrete elements exposed to freezing and thawing cycles and are not likely to be
1096	saturated or exposed to deicing chemicals.]
1097	[F2: Concrete elements exposed to freezing and thawing cycles and are likely to be saturated,

and female toilet rooms."

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1098 but not exposed to deicing chemicals. 1099 F3: Concrete elements exposed to freezing and thawing cycles and are likely to be saturated 1100 and exposed to deicing chemicals." 1101 Section 13. Section **15A-3-110** is amended to read: 1102 15A-3-110. Amendments to Chapters 23 through 25 of IBC. 1103 (1) A new IBC, Section 2306.1.5, is added as follows: "2306.1.5 Load duration factors. 1104 The allowable stress increase of 1.15 for snow load, shown in Table 2.3.2, Frequently Used 1105 Load Duration Factors, Cd, of the National Design Specifications, shall not be utilized at 1106 elevations above 5,000 feet (1,524 M)." 1107 (2) In IBC, Section [2308.6] 2308.3.1, a new exception, 3, is added as follows: 1108 "[Exception:] 3. Where foundation plates or sills are bolted or anchored to the foundation with 1109 not less than 1/2 inch (12.7 mm) diameter steel bolts or approved anchors, embedded at least 7 1110 inches (178 mm) into concrete or masonry and spaced not more than 32 inches (816 mm) apart, 1111 there shall be a minimum of two bolts or anchor straps per piece located not less than 4 inches 1112 (102 mm) from each end of each piece. A properly sized nut and washer shall be tightened on 1113 each bolt to the plate." 1114 (3) IBC, Section 2506.2.1, is deleted and replaced with the following: "2506.2.1 Other 1115 materials. Metal suspension systems for acoustical and lay-in panel ceilings shall conform with 1116 ASTM C635 listed in Chapter 35 and Section 13.5.6 of ASCE 7, as amended in Section 1117 [1613.8] 1613.5, for installation in high seismic areas." 1118 Section 14. Section 15A-3-112 is amended to read: 1119 15A-3-112. Amendments to Chapters 29 through 31 of IBC. 1120 (1) In IBC [P] Table 2902.1 the following changes are made: 1121 (a) The title for [P] Table 2902.1 is deleted and replaced with the following: "[P] Table 1122 2902.1, Minimum Number of Required Plumbing Facilities a, hu. (b) In the row for "E" occupancy in the field for "OTHER" a new footnote i is added. 1123 (c) In the row for "I-4" occupancy in the field for "OTHER" a new footnote i is added. 1124 1125 (d) A new footnote h is added as follows: "FOOTNOTE: h. When provided, in public 1126 toilet facilities there shall be an equal number of diaper changing facilities in male toilet rooms

- 38 -

(e) A new footnote i is added to the table as follows: "FOOTNOTE i: Non-residential

1129	child care facilities shall comply with additional sink requirements of Utah Administrative
1130	Code R430-100-4."
1131	(2) A new IBC, Section [P]2902.7, is added as follows:
1132	"[P]2902.7 Toilet Facilities for Workers.
1133	Toilet facilities shall be provided for construction workers and such facilities shall be
1134	maintained in a sanitary condition. Construction worker toilet facilities of the nonsewer type
1135	shall conform to ANSI Z4.3."
1136	[(2)] (3) In IBC, Section 3006.5, a new exception is added as follows: "Exception:
1137	Hydraulic elevators and roped hydraulic elevators with a rise of 50 feet or less."
1138	Section 15. Section <b>15A-3-113</b> is amended to read:
1139	15A-3-113. Amendments to Chapters 32 through 35 of IBC.
1140	[(1) A new section IBC, Section 3401.7, is added as follows: "3401.7 Parapet bracing,
1141	wall anchors, and other appendages. Until June 30, 2014, a building constructed before 1975
1142	shall have parapet bracing, wall anchors, and appendages such as cornices, spires, towers,
1143	tanks, signs, statuary, etc. evaluated by a licensed engineer when the building is undergoing
1144	structural alterations, which may include structural sheathing replacement of 10% or greater, or
1145	other structural repairs. Reroofing or water membrane replacement may not be considered a
1146	structural alteration or repair for purposes of this section. Beginning July 1, 2014, a building
1147	constructed before 1975 shall have parapet bracing, wall anchors, and appendages such as
1148	cornices, spires, towers, tanks, signs, statuary, etc. evaluated by a licensed engineer when the
1149	building is undergoing a total reroofing. Parapet bracing, wall anchors, and appendages
1150	required by this section shall be evaluated in accordance with 75% of the seismic forces as
1151	specified in Section 1613. When allowed by the local building official, alternate methods of
1152	equivalent strength as referenced in an approved code under Utah Code, Subsection
1153	15A-1-204(6)(a), will be considered when accompanied by engineer-sealed drawings, details,
1154	and calculations. When found to be deficient because of design or deteriorated condition, the
1155	engineer's recommendations to anchor, brace, reinforce, or remove the deficient feature shall be
1156	implemented.]
1157	[Exceptions:]
1158	[1. Group R-3 and U occupancies.]

[2. Unreinforced masonry parapets need not be braced according to the above stated provisions

provided that the maximum height of an unreinforced masonry parapet above the level of the
diaphragm tension anchors or above the parapet braces shall not exceed one and one-half times
the thickness of the parapet wall. The parapet height may be a maximum of two and one-half
times its thickness in other than Seismic Design Categories D, E, or F."]
[(2) IBC, Section 3408.4, is deleted and replaced with the following: "3408.4 Seismic.
When a change in accumancy results in a structure being reclassified to a higher Rick Category

When a change in occupancy results in a structure being reclassified to a higher Risk Category (as defined in Table 1604.5), or when such change of occupancy results in a design occupant load increase of 100% or more, the structure shall conform to the seismic requirements for a new structure.]

1169 [Exceptions:]

not change."]

[1. Specific seismic detailing requirements of this code or ASCE 7 for a new structure shall not be required to be met where it can be shown that the level of performance and seismic safety is equivalent to that of a new structure. A demonstration of equivalence analysis shall consider the regularity, overstrength, redundancy, and ductility of the structure. Alternatively, the building official may allow the structure to be upgraded in accordance with referenced sections as found in an approved code under Utah Code, Subsection 15A-1-204(6)(a).]

[2. When a change of use results in a structure being reclassified from Risk Category I or II to Risk Category III and the structure is located in a seismic map area where SDS is less than 0.33, compliance with the seismic requirements of this code and ASCE 7 are not required.]

[3. Where design occupant load increase is less than 25 occupants and the Risk Category does

[(3)] (1) In IBC, Chapter 35, the referenced standard ICCA117.1-09, Section 606.2, Exception 1 is modified to include the following sentence at the end of the exception:

"The minimum clear floor space shall be centered on the sink assembly."

[(4)] (2) The following referenced standard is added under UL in IBC, Chapter 35:

1185	"Number	Title	Referenced in code section number
1186	2034-2008	Standard of Single- and	907.9"
		Multiple-station Carbon Monoxide	
		Alarms	

Section 16. Section **15A-3-202** is amended to read:

## 15A-3-202. Amendments to Chapters 1 through 5 of IRC.

- (1) In IRC, Section R102, a new Section R102.7.2 is added as follows: "R102.7.2 Physical change for bedroom window egress. A structure whose egress window in an existing bedroom is smaller than required by this code, and that complied with the construction code in effect at the time that the bedroom was finished, is not required to undergo a physical change to conform to this code if the change would compromise the structural integrity of the structure or could not be completed in accordance with other applicable requirements of this code, including setback and window well requirements."
  - (2) In IRC, Section 109:
- (a) A new IRC, Section 109.1.5, is added as follows: "R109.1.5 Weather-resistant exterior wall envelope inspections. An inspection shall be made of the weather-resistant exterior wall envelope as required by Section R703.1 and flashings as required by Section R703.8 to prevent water from entering the weather-resistive barrier."
- (b) The remaining sections are renumbered as follows: R109.1.6 Other inspections; R109.1.6.1 Fire- and smoke-resistance-rated construction inspection; R109.1.6.2 Reinforced masonry, insulating concrete form (ICF) and conventionally formed concrete wall inspection; and R109.1.7 Final inspection.
- (3) IRC, Section R114.1, is deleted and replaced with the following: "R114.1 Notice to owner. Upon notice from the building official that work on any building or structure is being prosecuted contrary to the provisions of this code or other pertinent laws or ordinances or in an unsafe and dangerous manner, such work shall be immediately stopped. The stop work order shall be in writing and shall be given to the owner of the property involved, or to the owner's agent or to the person doing the work; and shall state the conditions under which work will be permitted to resume."
- (4) In IRC, Section R202, the following definition is added: "CERTIFIED BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown competence to test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction under Utah Code, Subsection 19-4-104(4)."
- (5) In IRC, Section R202, the definition for "CONDITIONED SPACE" is modified by deleting the words at the end of the sentence "being heated or cooled by any equipment or appliance" and replacing them with the following: "enclosed within the building thermal

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- envelope that is directly heated or cooled, or indirectly heated or cooled by any of the following means:
- 1221 1. Openings directly into an adjacent conditioned space.
- 1222 2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.
- 1223 3. Un-insulated duct, piping or other heat or cooling source within the space."
  - (6) In IRC, Section R202, the definition of "Cross Connection" is deleted and replaced with the following: "CROSS CONNECTION. Any physical connection or potential connection or arrangement between two otherwise separate piping systems, one of which contains potable water and the other either water of unknown or questionable safety or steam, gas, or chemical, whereby there exists the possibility for flow from one system to the other, with the direction of flow depending on the pressure differential between the two systems (see "Backflow, Water Distribution")."
  - (7) In IRC, Section 202, in the definition for gray water a comma is inserted after the word "washers"; the word "and" is deleted; and the following is added to the end: "and clear water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without objectionable odors; non-highly pigmented; and will not interfere with the operation of the sewer treatment facility."
  - (8) In IRC, Section R202, the definition of "Potable Water" is deleted and replaced with the following: "POTABLE WATER. Water free from impurities present in amounts sufficient to cause disease or harmful physiological effects and conforming to the Utah Code, Title 19, [Chapters] Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water Quality Act, and the regulations of the public health authority having jurisdiction."
  - (9) IRC, Figure R301.2(5), is deleted and replaced with Table R301.2(5a) and Table R301.2(5b) as follows:

1243	"TABLE NO. R301.2(5a)								
1244	STATE OF UTAH - REGIONAL SNOW LOAD FACTORS								
1245	COUNTY Po S Ao								
1246		Beaver	43	63	6.2				
1247		Box Elder	43	63	5.2				
1248		Cache	50	63	4.5				

1249	Carbon	43	63	5.2
1250	Daggett	43	63	6.5
1251	Davis	43	63	4.5
1252	Duchesne	43	63	6.5
1253	Emery	43	63	6.0
1254	Garfield	43	63	6.0
1255	Grand	36	63	6.5
1256	Iron	43	63	5.8
1257	Juab	43	63	5.2
1258	Kane	36	63	5.7
1259	Millard	43	63	5.3
1260	Morgan	57	63	4.5
1261	Piute	43	63	6.2
1262	Rich	57	63	4.1
1263	Salt Lake	43	63	4.5
1264	San Juan	43	63	6.5
1265	Sanpete	43	63	5.2
1266	Sevier	43	63	6.0
1267	Summit	86	63	5.0
1268	Tooele	43	63	4.5
1269	Uintah	43	63	7.0
1270	Utah	43	63	4.5
1271	Wasatch	86	63	5.0
1272	Washington	29	63	6.0
1273	Wayne	36	63	6.5
1274	Weber	43	63	4.5

1275	TABLE NO. R301.2(5b)
1276	REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS1,2

1277	The following jurisdictions require design snow load values that differ from the Equation in								
	the Utah Snov	w Load Study.							
1278	County	City	Elevation	Ground Snow	Roof Snow				
				Load (psf)	Load (psf) 6				
1279	Carbon	Price3	5550	43	30				
		All other county locations5							
1280	Davis	Fruit Heights3	4500 - 4850	57	40				
1281	Emery	Green River3	4070	36	25				
1282	Garfield	Panguitch3	6600	43	30				
1283	Rich	Woodruff3	6315	57	40				
		Laketown4	6000	57	40				
		Garden City5							
		Randolph4	6300	57	40				
1284	San Juan	Monticello3	6820	50	35				
1285	Summit	Coalville3	5600	86	60				
		Kamas4	6500	114	80				
1286	Tooele	Tooele3	5100	43	30				
1287	Utah	Orem3	4650	43	30				
		Pleasant Grove4	5000	43	30				
		Provo5							
1288	Wasatch	Heber5							
1289	Washington	Leeds3	3460 29		20				
		Santa Clara3	2850	21	15				
		St. George3	2750	21	15				
		All other county locations5							
1290	Wayne Loa3 7080 43 30								
1291	1The IRC requires a minimum live load See R301.6.								

1292 2This table is informational only in that actual site elevations may vary. Table is only valid if site elevation is within 100 feet of the listed elevation. Otherwise, contact the local Building Official. 1293 3 Values adopted from Table VII of the Utah Snow Load Study 1294 4Values based on site-specific study. Contact local Building Official for additional information. 1295 5Contact local Building Official. 1296 6Based on Ce = 1.0, Ct = 1.0 and Is = 1.0" 1297 (10) IRC, Section R301.6, is deleted and replaced with the following: "R301.6 Utah Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the jurisdictions 1298 1299 identified in that table. Otherwise, the ground snow load, Pg, to be used in the determination 1300 of design snow loads for buildings and other structures shall be determined by using the 1301 following formula: Pg = (Po2 + S2(A-Ao)2)0.5 for A greater than Ao, and Pg = Po for A less 1302 than or equal to Ao. 1303 WHERE: 1304 Pg = Ground snow load at a given elevation (psf); 1305 Po = Base ground snow load (psf) from Table No. R301.2(5a); 1306 S = Change in ground snow load with elevation (psf/100 ft.) From Table No. R301.2(5a): 1307 A = Elevation above sea level at the site (ft./1,000); Ao = Base ground snow elevation from Table R301.2(5a) (ft./1.000). 1308 1309 The building official may round the roof snow load to the nearest 5 psf. The ground snow 1310 load, Pg, may be adjusted by the building official when a licensed engineer or architect submits 1311 data substantiating the adjustments. Where the minimum roof live load in accordance with Table R301.6 is greater than the design 1312 roof snow load, such roof live load shall be used for design, however, it shall not be reduced to 1313 1314 a load lower than the design roof snow load. Drifting need not be considered for roof snow 1315 loads less than 20 psf." 1316 [(11) In IRC, Section R302.2, the words "Exception: A" are deleted and replaced with 1317 the following: 1318 ["Exceptions:]

1319	1. A common 2-hour fire-resistance-rated wall is permitted for townhouses if such walls do
1320	not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common
1321	wall. Electrical installation shall be installed in accordance with Chapters 34 through 43.
1322	Penetrations of electrical outlet boxes shall be in accordance with Section R302.4.]
1323	[2. In buildings equipped with an automatic residential fire sprinkler system, a".]
1324	[(12) In IRC, Section R302.2.4, a new exception 6 is added as follows: "6.
1325	Townhouses separated by a common 2-hour fire-resistance-rated wall as provided in Section
1326	<del>R302.2."</del> ]
1327	[(13)] (11) In IRC, Section R302.5.1, the words "self-closing device" are deleted and
1328	replaced with "self-latching hardware".
1329	(12) IRC, Section R302.13, is deleted.
1330	[(14)] (13) In IRC, Section R303.4, the number "5" is changed to "3" in the first
1331	sentence.
1332	[ <del>(15)</del> ] (14) IRC, Sections R311.7.4 through [ <del>R311.7.4.3</del> ] <u>R311.7.5.3</u> , are deleted and
1333	replaced with the following: "R311.7.4 Stair treads and risers. [R311.7.4.1] R311.7.5.1 Riser
1334	height. The maximum riser height shall be 8 inches (203 mm). The riser shall be measured
1335	vertically between leading edges of the adjacent treads. The greatest riser height within any
1336	flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).
1337	[R311.7.4.2] R311.7.5.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm).
1338	The tread depth shall be measured horizontally between the vertical planes of the foremost
1339	projection of adjacent treads and at a right angle to the tread's leading edge. The greatest tread
1340	depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).
1341	Winder treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at
1342	a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall
1343	have a minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the
1344	greatest winder tread depth at the 12-inch (305 mm) walk line shall not exceed the smallest by
1345	more than 3/8 inch (9.5 mm).
1346	[R311.7.4.3] R311.7.5.3 Profile. The radius of curvature at the leading edge of the tread shall
1347	be no greater than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more
1348	than 1 1/4 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing
1349	projection shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm)

1350 between two stories, including the nosing at the level of floors and landings. Beveling of nosing shall not exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the 1351 1352 underside of the leading edge of the tread above at an angle not more than 30 degrees (0.51 rad) 1353 from the vertical. Open risers are permitted, provided that the opening between treads does not 1354 permit the passage of a 4-inch diameter (102 mm) sphere. 1355 Exceptions. 1356 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm). 1357 2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches 1358 (762 mm) or less." [(16) In IRC, Section R312.1.2, the words "adjacent fixed seating" are deleted.] 1359 1360 [<del>(17)</del>] (15) IRC, Section R312.2, is deleted. 1361 [(18)] (16) IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the 1362 following: "R313.1 Design and installation. When installed, automatic residential fire sprinkler systems for townhouses or one- and two-family dwellings shall be designed and 1363 1364 installed in accordance with Section P2904 or NFPA 13D." (17) In IRC, Section 315.3, the following words are added to the first sentence after the 1365 1366 word "installed": "on each level of the dwelling unit and". 1367 [(19) A new] (18) In IRC, Section R315.5, a new exception, 3, is added as follows: 1368 ["R315.5 Power source. Carbon monoxide alarms shall receive their primary power from the 1369 building wiring when such wiring is served from a commercial source, and when primary 1370 power is interrupted, shall receive power from a battery. Wiring shall be permanent and 1371 without a disconnecting switch other than those required for over-current protection. 1372 [Exceptions:] 1373 1. Carbon monoxide alarms shall be permitted to be battery operated when installed in 1374 buildings without commercial power. 1375 [2] "3. Hard wiring of carbon monoxide alarms in existing areas shall not be required where 1376 the alterations or repairs do not result in the removal of interior wall or ceiling finishes 1377 exposing the structure, unless there is an attic, crawl space or basement available which could 1378 provide access for hard wiring, without the removal of interior finishes." [<del>(20)</del>] (19) A new IRC, Section [<del>R315.6</del>] R315.7, is added as follows: "[<del>R315.6</del>] 1379

R315.7 Interconnection. Where more than one carbon monoxide alarm is required to be

1381	installed within an individual dwelling unit in accordance with Section R315.1, the alarm
1382	devices shall be interconnected in such a manner that the actuation of one alarm will activate
1383	all of the alarms in the individual unit. Physical interconnection of smoke alarms shall not be
1384	required where listed wireless alarms are installed and all alarms sound upon activation of one
1385	alarm.
1386	Exception: Interconnection of carbon monoxide alarms in existing areas shall not be required
1387	where alterations or repairs do not result in removal of interior wall or ceiling finishes exposing
1388	the structure, unless there is an attic, crawl space or basement available which could provide
1389	access for interconnection without the removal of interior finishes."
1390	$[\underbrace{(21)}]$ (20) In IRC, Section R403.1.6, a new Exception [4] $\underline{3}$ is added as follows: "[4] $\underline{3}$ .
1391	When anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be
1392	placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm)
1393	from each end of each plate section at interior bearing walls, interior braced wall lines, and at
1394	all exterior walls."
1395	$\left[\frac{(22)}{(21)}\right]$ In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2
1396	and Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816
1397	mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located
1398	not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls,
1399	interior braced wall lines, and at all exterior walls."
1400	[(23)] (22) In IRC, Section R404.1, a new exception is added as follows: "Exception:
1401	As an alternative to complying with Sections R404.1 through R404.1.5.3, concrete and
1402	masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5 and
1403	1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."
1404	[(24) IRC, Section R501.3, is deleted.]
1405	Section 17. Section 15A-3-203 is amended to read:
1406	15A-3-203. Amendments to Chapters 6 through 15 of IRC.
1407	(1) In IRC, Section [N1101.8] N1101.5 (R103.2), all words after the words "herein
1408	governed." are deleted and replaced with the following: "Construction documents include all
1409	documentation required to be submitted in order to issue a building permit."
1410	(2) In IRC, Section [ $\frac{N1101.14}{101.14}$ ] $\frac{N1101.12}{101.12}$ (R303.3), all wording after the first sentence
1411	is deleted.

(3) In IRC, Section N1101.13 (R401.2), add Exception as follows:
 "Exception: A project complies if the project demonstrates compliance with "0 percent better

than code" using the software RESCheck 2012 Utah Energy Conservation Code."

[(3)] (4) In IRC, Table [N1102.1.1 (R402.1.1) and Table N1102.1.3 (R402.1.3), the rows for "climate zone 3", "climate zone 5 and Marine 4", and "climate zone 6" are deleted and replaced and] N1102.2 (R402.1.2), in the column titled MASS WALL R-VALUE, a new footnote j is added as follows:

"j. Log walls complying with ICC400 and with a minimum average wall thickness of 5 inches or greater shall be permitted in Zones 5 through 8 when overall window glazing has a .31

<u>U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil),</u>

and all other component requirements are met."

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14 24		"TABLE N1102.1.1 (R402.1.1)									
14 25	INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT <sup>®</sup>										
1-4 26	GLAZED WOOD MASS BASEMENT SLAB SPACE CLIMATE U-FACTOR'S SKYLIGHT'S FENESTRATION CEILING FRAME WALL WALL FLOOR WALL R-VALUE WALL									CRAWL SPACE * WALL R-VALUE	
1-4 27	3	<del>0.65</del>	<del>0.65</del>	<del>0.40</del>	<del>30</del>	<del>15</del>	<del>5</del>	<del>19</del>	θ	θ	<del>5/13</del>
14 28	5 and Marine 4	<del>0.35</del>	<del>0.60</del>	<del>NR</del>	<del>38</del>	<del>19 or 13 +</del> <del>5</del> **	<del>13</del>	<del>30-</del> ₹	<del>10/13</del>	<del>10, 2 ft</del>	10/13
14 29	6	<del>0.35</del>	<del>0.60</del>	<del>NR</del>	<del>49</del>	<del>19 or 13 +</del> <del>5</del> +	<del>15</del>	<del>30 -</del>	<del>10/13</del>	<del>10, 4 ft</del>	<del>10/13</del>

Hj. Log walls complying with ICC400 and with a minimum average wall thickness of 5" or greater shall be permitted in Zones 55-8 when overall window glazing is .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil), and all other component requirements are met."

1431	- TABLE N1102.1.3 (R402.1.3)									
1432	- EQUIVALENT U-FACTORS*									
1433	CLIMATE FENESTRATION SKYLIGHT CEILING WALL MASS WALL FLOOR WALL SPA							CRAWL SPACE WALL U-FACTOR		
1434	- <del>3</del>	0.65	0.65	0.035	0.082	0.141	0.047	0.360	<del>0.136</del>	
1435	- 5 and Marine 4	<del>0.35</del>	0.60	0.030	0.060	0.082	0.033	0.059	<del>0.065</del>	

	6	0.35	0.60	0.026	0.060	0.060	0.033	0.059	0.065
1436	-								
1437	] [ <del>(4)</del>	In IRC, Section	<del>n N1102.</del>	2.1 (R402	.2.1), the	last sentenc	e is deleted	l <del>.</del> ]	
1438	[ <del>(5)</del>	In IRC, Section	<del>n N1102.</del>	<del>2.2 (R402</del>	.2.2), the	last sentenc	e is deleted	<del>[.</del> ]	
1439	[ <del>(6)</del>	In IRC, Section	<del>n N1102.</del>	3.3 (R402	.3.3), the	last sentenc	e is deleted	<del>[.</del> ]	
1440	[ <del>(7)</del>	In IRC, Section	<del>n N1102.</del>	<del>3.4 (R402</del>	.3.4), the	last sentenc	e is deleted	<del>[.</del> ]	
1441	[ <del>(8)</del> ]	( <u>5</u> ) In IRC, Se	ection N1	102.4.1 (F	R402.4.1),	in the first	sentence, tl	he word "a	nd" is
1442	deleted and	replaced with	the word '	'or".					
1443	[ <del>(9)</del> ]	(6) In IRC, So	ection N1	102.4.1.1	(R402.4.1	.1), the last	sentence is	s deleted ar	nd
1444	replaced wit	th the following	g: "Where	allowed	by the [ <del>bu</del>	ilding] code	official, th	ne builder i	nay
1445	certify comp	pliance to comp	onents cr	riteria for	items whi	ch may not	be inspecte	d during	
1446	regularly scl	heduled inspec	tions."						
1447	$[\frac{(10)}{}]$	<del>)</del> ] <u>(7)</u> In IRC, S	Section N	1102.4.1.2	2 (R402.4.	1.2), the fol	llowing cha	anges are n	nade:
1448	(a) ]	In the first sent	ence, the	words "in	Climate Z	Zones 1 and	2, and [ <del>3</del> ]	three air ch	anges
1449	per hour in	[ <del>Zone</del> ] <u>Climate</u>	Zones 3	through 8	" are delet	ed.			
1450	(b)	In the third sen	tence, [ <del>th</del>	e words '''	Where req	uired by the	building c	official," an	d the
1451	word "third" [are] is deleted.								
1452	(c) The following sentence is inserted after the third sentence: "The following parties								
1453	shall be app	roved to condu	ct testing	: Parties c	ertified by	BPI or RE	SNET, or 1	icensed	
1454	contractors	who have com	pleted trai	ning prov	ided by B	lower Door	Test equip	ment	
1455	manufacture	ers or other cor	nparable 1	raining."					
1456	[(11)	) In IRC, Secti	<del>on N110</del> 2	2.4.4 (R40	<del>2.4.4), the</del>	e last senten	<del>ce is delete</del>	<del>:d.</del> ]	
1457	$[\frac{(12)}{}]$	) In IRC, Secti	on N1103	<del>3.2.2 (R40</del>	<del>3.2.2), the</del>	<del>requireme</del>	nts for total	Heakage te	sting
1458	are deleted a	and replaced w	ith the fol	lowing:					
1459	[ <del>"1.</del>	Postconstruction	on test: To	otal leakag	<del>ge shall be</del>	less than or	equal to 1	<del>0 cfm (283</del>	Г
1460	L/min) per	100 square feet	<del>(9.29 m2</del>	) of condi	tioned flo	or space wh	<del>en tested a</del>	t a pressure	•
1461	differential	of 0.1 inches w	<del>r.g. (25 Pa</del>	<del>i) across t</del> l	<del>he entire s</del>	<del>ystem, inclu</del>	iding the m	<del>ianufacture</del>	<del>r's air</del>
1462	handler encl	<del>losure. All regi</del>	<del>ster boots</del>	shall be t	<del>aped or ot</del>	<del>herwise sea</del>	<del>led during</del>	the test.]	
1463	[ <del>2. ]</del>	Rough-in test:	<del>Total leak</del>	age shall	be less tha	<del>in or equal t</del>	<del>to 10 cfm (</del> 2	<del>283 L/min</del> )	<del>per</del>
1464	100 square	feet (9.29 m2)	<del>of conditi</del>	oned floor	<del>r area whe</del>	<del>n tested at a</del>	<del>r pressure c</del>	lifferential	<del>of at</del>
1465	least 0.1 inc	hes w.g. (25 P	<del>a) across</del>	the systen	<del>n, includir</del>	<del>ng the manu</del>	<del>facturer's a</del>	<del>ir handler</del>	
1466	enclosure.	All registers sh	all be tape	ed or other	rwise seal	<del>ed during th</del>	e test. If the	<del>ne air hand</del>	<del>ler is</del>

1467	not installed at the time of the test, total leakage shall be less than or equal to 7.5 cfm (212)
1468	L/min) per 100 square feet (9.29 m2) of conditioned floor area."]
1469	[ <del>(13)</del> ] (8) In IRC, Section [ <del>N1103.2.2 (R403.2.2)</del> ] <u>N1103.3.3 (R403.3.3)</u> , the exception
1470	for [total] duct air leakage testing is deleted and replaced with the following: "Exception: The
1471	[total] duct air leakage test is not required for systems with all air handlers and at least [50%]
1472	65% of all ducts (measured by length) located entirely within the building thermal envelope."
1473	(9) In IRC, Section N1103.3.3 (R403.3.3), the following is added after the exception:
1474	"The following parties shall be approved to conduct testing: Parties certified by BPI or
1475	RESNET, or licensed contractors who have completed either training provided by Duct Test
1476	equipment manufacturers or other comparable training."
1477	(10) In IRC, Section N1103.3.4 (R403.3.4), in Subsection 1, the number 4 is changed
1478	to 8, the number 113.3 is changed to 170, the number 3 is changed to 6, the number 85 is
1479	changed to 114.6, and in Subsection 2, the number 4 is changed to 8 and the number 113.3 is
1480	changed to 226.5.
1481	[(14)] (11) In IRC, Section $[N1103.2.3 (R403.2.3)]$ $N1103.3.5 (R403.3.5)$ , the words
1482	"or plenums" are deleted.
1483	[(15) In IRC, Section N1103.4.2 (R403.4.2), the sentences for "3.", "9.", and the last
1484	sentence are deleted.]
1485	[(16) In IRC, Section N1103.5 (R403.5), the first sentence is deleted.]
1486	[(17) IRC, Section N1104.1 (R404.1) and the exception are deleted, and N1104.1.1
1487	(R404.1.1) becomes N1104.1 (R404.1).]
1488	[(18) In IRC, Table N1105.5.2(1) (R405.5.2(1)), the following changes are made under
1489	the column STANDARD REFERENCE DESIGN:
1490	[(a) In the row "Air exchange rate", the words "in Zones 1 and 2, and 3 air changes per
1491	hour in Zones 3 through 8" are deleted.]
1492	[(b) In the row "Heating systems <sup>f, g</sup> ", the standard reference design is deleted and
1493	replaced with the following:
1494	["Fuel Type: same as proposed design]
1495	[Efficiencies:]
1496	[Electric: air source heat pump with prevailing federal minimum efficiencies]
1497	[Nonelectric furnaces: natural oas furnace with prevailing federal minimum

1498	efficiencies]			
1499	[Nonelectric boilers: natural gas boiler with prevailing federal minimum efficiencies]			
1500	[Capacity: sized in accordance with Sec	<del>ction N1103.6"</del> ]		
1501	[(c) In the row "Cooling systems <sup>f,h</sup> " the	e words "As proposed" are deleted and replaced		
1502	with the following:]			
1503	["Fuel Type: Electric]			
1504	[Efficiency: in accordance with prevaili	ing federal minimum standards"]		
1505	[(d) In the row "Service water heating <sup>f, g</sup>	s, h, i'', the words "As proposed" are deleted and		
1506	replaced with the following:			
1507	["Fuel Type: same as proposed design]			
1508	[Efficiency: in accordance with prevaili	ing federal minimum standards]		
1509	[ <del>Tank Temperature: 120°-F"</del> ]			
1510	[(e) In the row "Thermal distribution systems" the word "none" is deleted and replaced			
1511	with the following: "Thermal distribution system efficiency (DSE) of .080 shall be applied to			
1512	both the heating and cooling system efficiencies."]			
1513	[(19) In Table N1105.5.2(2) (R405.5.2(2)), the number "0.80" is inserted under			
1514	"Forced air systems" for "Distribution system components located in unconditioned space".]			
1515	(12) In IRC, Section N1103.5.3 (R403.5.3), Subsection 5 is deleted and Subsections 6			
1516	and 7 are renumbered.	and 7 are renumbered.		
1517	(13) In IRC, Section N1106.2 (R406.2)	(13) In IRC, Section N1106.2 (R406.2), the last sentence and exception are deleted.		
1518	(14) In IRC, Section N1106.4 (R406.4)	), the table is deleted and replaced with the		
1519	<u>following:</u>			
	<u></u>	1520 TABLE N1106.4 (R406.4)		
	1521MAXIMUM ENF	ERGY RATING INDEX		
1522	CLIMATE ZONE	ENERGY RATING INDEX		
	<u>15233</u>	<u>65</u>		

1526 [(20)] (15) In IRC, Section M1307.2, the words "In Seismic Design Categories [D1 and D2] D0, D1, and D2, and in townhouses in Seismic Design Category C", are deleted, and in

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1528	Subparagraph 1, the last sentence is deleted.
1529	[(21) The RESCheck Software adopted by the United States Department of Energy and
1530	modified to meet the requirements of this section shall be used to verify compliance with this
1531	section. The software shall address the Total UA alternative approach and account for
1532	Equipment Efficiency Trade-offs when applicable per the standard reference design as
1533	amended.]
1534	$[\frac{(22)}{(16)}]$ IRC, Section $[\frac{M1411.6}{(100)}]$ M1411.8, is deleted.
1535	Section 18. Section 15A-3-204 is amended to read:
1536	15A-3-204. Amendments to Chapters 16 through 25 of IRC.
1537	[(1) In IRC, Table M1601.1.1(2), in the section "Round ducts and enclosed rectangular
1538	ducts", the word "enclosed" is deleted; the words "14 inches or less" are deleted and replaced
1539	with "over 8 inches but less than 15 inches"; the wording "8 inches or less" under duct size,
1540	"0.013" under minimum thickness (in.), "30" under equivalent gage no., and "0.0159" under
1541	aluminum minimum thickness (in.), are added; and the section "Exposed rectangular ducts" is
1542	<del>deleted.</del> ]
1543	[(2) In IRC, Section M1901.3, the word "only" is inserted between the words "labeled"
1544	and "for".]
1545	[ <del>(3)</del> ] A new IRC, Section G2401.2, is added as follows: "G2401.2 Meter Protection.
1546	Fuel gas services shall be in an approved location and/or provided with structures designed to
1547	protect the fuel gas meter and surrounding piping from physical damage, including falling,
1548	moving, or migrating ice and snow. If an added structure is used, it must provide access for
1549	service and comply with the IBC or the IRC."
1550	Section 19. Section <b>15A-3-205</b> is amended to read:
1551	15A-3-205. Amendments to Chapters 26 through 35 of IRC.
1552	(1) A new IRC, Section P2602.3, is added as follows: "P2602.3 Individual water
1553	supply. Where a potable public water supply is not available, individual sources of potable
1554	water supply shall be utilized, provided that the source has been developed in accordance with
1555	Utah Code, Sections 73-3-1 and 73-3-25, as administered by the Department of Natural
1556	Resources, Division of Water Rights. In addition, the quality of the water shall be approved by
1557	the local health department having jurisdiction."
1558	(2) A new IRC, Section P2602.4, is added as follows: "P2602.4 Sewer required. Every

building in which plumbing fixtures are installed and all premises having drainage piping shall be connected to a public sewer where the sewer is accessible and is within 300 feet of the property line in accordance with Utah Code, Section 10-8-38; or an approved private sewage disposal system in accordance with Utah Administrative Code, Chapter 4, Rule R317, as administered by the Department of Environmental Quality, Division of Water Quality."

- (3) In IRC, Section [P2801.7] P2801.8, all words in the first sentence up to the word "water" are deleted.
- (4) A new IRC, Section P2902.1.1, is added as follows: "P2902.1.1 Backflow assembly testing. The premise owner or [his] the premise owner's designee shall have backflow prevention assemblies operation tested in accordance with administrative rules made by the Drinking Water Board at the time of installation, repair, and relocation and at least on an annual basis thereafter, or more frequently as required by the authority having jurisdiction. Testing shall be performed by a Certified Backflow Preventer Assembly Tester. The assemblies that are subject to this paragraph are the Spill Resistant Vacuum Breaker, the Pressure Vacuum Breaker Assembly, the Double Check Backflow Prevention Assembly, the Double Check Detector Assembly Backflow Preventer, the Reduced Pressure Principle Backflow Preventer, and Reduced Pressure Detector Assembly. Third-party certification for backflow prevention assemblies will consist of any combination of two certifications, laboratory or field. Acceptable third-party laboratory certifying agencies are ASSE, IAPMO, and USC-FCCCHR. USC-FCCCHR currently provides the only field testing of backflow protection assemblies. Also see www.drinkingwater.utah.gov and rules made by the Drinking Water Board."

[(5) IRC, Table P2902.3, is deleted and replaced with the following:]

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"DEVICE	<del>DEGREE OF</del>	APPLICATION <sup>b</sup>	APPLICABLE
	HAZARĐ <sup>a</sup>		<del>STANDARDS</del>
BACKFLOW PREVENT	FION ASSEMBLIES:		
Double check backflow	<del>Low hazard</del>	Backpressure or	ASSE 1015, AWWA
prevention assembly		backsiphonage	C510, CSA B64.5,
and double check fire		<del>Sizes 3/8" - 16"</del>	CSA B64.5.1
protection backflow			
prevention assembly			

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1586	Double check detector	Low hazard	Backpressure or	ASSE 1048
	fire protection		<del>backsiphonage</del>	
	backflow prevention		Sizes 3/8" - 16"	
	assemblies			
1587	Pressure vacuum	High or low hazard	Backsiphonage only	ASSE 1020, CSA
	breaker assembly		Sizes 1/2" - 2"	B64.1.2
1588	Reduced pressure	High or low hazard	Backpressure or	ASSE 1013, AWWA
	principle backflow		backsiphonage	C511, CSA B64.4,
	prevention assembly		<del>Sizes 3/8" - 16"</del>	CSA B64.4.1
	and reduced pressure			
	principle fire			
	protection backflow			
	assembly			
1589	Reduced pressure	High or low hazard	Backpressure or	ASSE 1047
	detector fire protection		backsiphonage (Fire	
	backflow prevention		Sprinkler Systems)	
	assemblies			
1590	Spill-resistant vacuum	High or low hazard	Backsiphonage only	ASSE 1056
	breaker assembly		<del>Sizes 1/2" - 2"</del>	
1591	BACKFLOW PREVENT	FER PLUMBING DEV	<del>VICES:</del>	
1592	Antisiphon-type fill	High hazard	Backsiphonage only	ASSE 1002, CSA
	valves for gravity water			B125.3
	closet flush tanks			
1593	Backflow preventer for	<del>Low hazard</del>	Backpressure or	ASSE 1022
	carbonated beverage		backsiphonage	
	machines		<del>Sizes 1/4" - 3/8"</del>	
1594	Backflow preventer	<del>Low hazard</del>	Backpressure or	ASSE 1012, CSA
	with intermediate		backsiphonage	<del>B64.3</del>
	atmospheric vents		<del>Sizes 1/4" - 3/8"</del>	

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1595	Dual check valve type	Low hazard	Backpressure or	ASSE 1024, CSA
	backflow preventers		backsiphonage	<del>B64.6</del>
			Sizes 1/4" - 1"	
1596	Hose connection	High or low hazard	Backsiphonage only	ASSE 1052, CSA
	backflow preventer		Sizes 1/2" - 1"	<del>B64.2, B64.2.1</del>
1597	Hose connection	High or low hazard	Backsiphonage only	ASSE 1011,
	vacuum breaker		Sizes 1/2", 3/4", 1"	CAN/CSA B64.1.1
1598	Atmospheric type	High or low hazard	Backsiphonage only	ASSE 1001, CSA
	vacuum breaker		<del>Sizes 1/2" - 4"</del>	<del>B64.1.1</del>
1599	Vacuum breaker wall	High or low hazard	Backsiphonage only	ASSE 1019, CSA
	hydrants, frost		Sizes 3/4", 1"	<del>B64.2.2</del>
	resistant, automatic			
	draining type			
1600	OTHER MEANS or ME	THODS:		
1601	- <del>Air gap</del>	High or low hazard	Backsiphonage only	ASME A112.1.2
1602	Air gap fittings for use	High or low hazard	Backpressure or	ASME A112.1.3
	with plumbing fixtures,		backsiphonage	
	appliances and			
	appurtenances			
1603	For SI: 1 inch = 25.4 mm	ì		
1604	a. Low Hazard - See Pol	lution (Section 202), I	<del>ligh Hazard - See Conta</del>	amination (Section
	<del>202)</del>			
1605	b. See Backpressure (Se	ction 202), See Backpr	essure, low head (Secti	on 202), See
	Backsiphonage Section 2	<del>202)</del>		
1606	Installation Guidelines: T	The above specialty dev	vices shall be installed i	n accordance with
	their listing and the manu	ufacturer's instructions	and the specific provisi	ons of this chapter."
1607	[(6) In IRC, Section	n P3009.1, all words at	fter the word "urinals" a	re deleted and the

[(6) In IRC, Section P3009.1, all words after the word "urinals" are deleted and the following sentence is added at the end: "Gray water recycling systems for subsurface landscape irrigation shall conform with UAC R317-401 Gray Water Systems."]

[(7) A new IRC, Section P3009.1.1, is added as follows: "P3009.1.1 Recording. The

1611	existence of a gray water recycling system shall be recorded on the deed of ownership for that
1612	property. The certificate of occupancy shall not be issued until the documentation of the
1613	recording required under this section is completed by the owner."]
1614	[(8) In IRC, Section P3009.2, the words "and systems for subsurface landscape
1615	irrigation shall comply with Section P3009.14" are deleted.]
1616	[(9) IRC, Section P3009.6, is deleted and replaced with the following: "P3009.6
1617	Potable water connections. The potable water supply to any building utilizing a gray water
1618	recycling system shall be protected against backflow by a reduced pressure backflow
1619	prevention assembly installed in accordance with Section P2902."]
1620	[(10) In IRC, Section P3009.7, the following is added at the end of the sentence: "and
1621	other clear water wastes which have a pH of 6.0 to 9.0; are non-flammable, non-combustible;
1622	without objectionable odor; non-highly pigmented; and will not interfere with the operation of
1623	the sewer treatment facility."]
1624	[(11) In IRC, Section P3009.13.3, in the second sentence, the following is added
1625	between the words "backflow" and "in": "by a reduced pressure backflow prevention assembly
1626	or an air gap installed".]
1627	[(12) IRC, Section P3009.14, is deleted and replaced with the following: "Section
1628	P3009.14 LANDSCAPE IRRIGATION SYSTEMS. Gray water recycling systems utilized for
1629	subsurface irrigation for single family residences shall comply with the requirements of UAC
1630	R317-401, Gray Water Systems. Gray water recycling systems utilized for subsurface
1631	irrigation for other occupancies shall comply with UAC R317-3, Design Requirements for
1632	Wastewater Collection, Treatment and Disposal and UAC R317-4, Onsite Waterwaste
1633	Systems."]
1634	(5) In IRC, Section P2902.1, the following subsections are added as follows:
1635	"P2902.1.1 General Installation Criteria.
1636	Assemblies shall not be installed more than five feet above the floor unless a permanent
1637	platform is installed. The assembly owner, where necessary, shall provide devices or structures
1638	to facilitate testing, repair, and maintenance, and to insure the safety of the backflow
1639	technician.
1640	P2902.1.2 Specific Installation Criteria.
1641	P2902.1.2.1 Reduced Pressure Principle Blackflow Prevention Assembly.

- 1642 The reduced pressure principle backflow prevention assembly shall be installed as 1643 follows: 1644 a. The assembly may not be installed in a pit. 1645 b. The relief valve of the assembly shall not be directly connected to a waste disposal line, 1646 including a sanitary sewer, a storm drain, or a vent. 1647 c. The assembly shall be installed in a horizontal position only, unless listed or approved for 1648 vertical installation in accordance with Section 303.4. 1649 d. The bottom of the assembly shall be installed a minimum of 12 inches above the floor or 1650 ground. e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or 1651 1652 obstacle, and shall be readily accessible for testing, repair, and maintenance. 1653 P2902.1.2.2 Double Check Valve Backflow Prevention Assembly. 1654 A double check valve backflow prevention assembly shall be installed as follows: 1655 a. The assembly shall be installed in a horizontal position only, unless listed or approved for 1656 vertical installation. 1657 b. The bottom of the assembly shall be a minimum of 12 inches above the ground or floor. 1658 c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or 1659 obstacle, and shall be readily accessible for testing, repair, and maintenance. 1660 d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of clearance 1661 between all sides of the vault, including the floor and roof or ceiling, with adequate room for 1662 testing and maintenance. 1663 P2902.1.2.3 Pressure Vacuum Break Assembly and Spill Resistant Pressure Vacuum Breaker 1664 Assembly. 1665 A pressure vacuum break assembly or a spill resistant pressure vacuum breaker assembly shall 1666 be installed as follows: 1667 a. The assembly shall not be installed in an area that could be subject to backpressure or back drainage conditions. 1668 1669 b. The assembly shall be installed a minimum of 12 inches above all downstream piping and 1670 the highest point of use.

be readily accessible for testing, repair, and maintenance.

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c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall

1673	d. The assembly shall not be installed below ground, in a vault, or in a pit.
1674	e. The assembly shall be installed in a vertical position."
1675	(6) IRC, Section P2910.5, is deleted and replaced with the following:
1676	"P2910.5 Potable water connections.
1677	When a potable water system is connected to a nonpotable water system, the potable water
1678	system shall be protected against backflow by a reduced pressure backflow prevention
1679	assembly or an air gap installed in accordance with Section 2901."
1680	(7) IRC, Section P2910.9.5, is deleted and replaced with the following:
1681	<u>"P2910.9.5 Makeup water.</u>
1682	Where an uninterrupeted nonpotable water supply is required for the intended application,
1683	potable or reclaimed water shall be provided as a source of makeup water for the storage tank.
1684	The makeup water supply shall be protected against backflow by means of an air gap not less
1685	than 4 inches (102 millimeters) above the overflow or by a reduced pressure backflow
1686	prevention assembly installed in accordance with Section 2902."
1687	(8) In IRC, Section P2911.12.4, the following words are deleted: "and backwater
1688	valves".
1689	(9) In IRC, Section P2912.15.6, the following words are deleted: "and backwater
1690	valves".
1691	(10) In IRC, Section P2913.4.2, the following words are deleted: "and backwater
1692	valves".
1693	(11) IRC, Section P3009, is deleted and replaced with the following:
1694	"P3009 Connected to nonpotable water from on-site water reuse systems.
1695	Nonpotable systems utilized for subsurface irrigation for single-family residences shall comply
1696	with the requirements of R317-401, UAC, Gray Water Systems."
1697	[(13)] (12) In IRC, Section P3103.6, the following sentence is added at the end of the
1698	paragraph: "Vents extending through the wall shall terminate not less than 12 inches from the
1699	wall with an elbow pointing downward."
1700	[(14)] (13) In IRC, Section P3104.4, the following sentence is added at the end of the
1701	paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain
1702	and floor sink installations when installed below grade in accordance with Chapter 30, and
1703	Sections P3104.2 and P3104.3. A wall cleanout shall be provided in the vertical vent."

- 1704 Section 20. Section **15A-3-206** is amended to read:
- 1705 15A-3-206. Amendments to Chapters 36 and 44 of IRC.
- 1706 (1) In IRC, Section E3901.9, the following exception is added:

"Exception: Receptacles or other outlets adjacent to the exterior walls of the garage, outlets
 adjacent to an exterior wall of the garage, or outlets in a storage room with entry from the

garage may be connected to the garage branch circuit."

- [(1)] (2) In IRC, Section [E3902.12] E3902.16, the following words in the first sentence are deleted: "family rooms, dining rooms, living rooms, parlors, libraries, dens," and "sunrooms, recreation rooms, closets, hallways, and similar rooms or areas."
- (3) In Section E3902.17:

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- (a) following the word "Exception" the number "1." is added; and
- (b) at the end of the section, the following sentences are added:

1716 [Exception:] "2. This section does not apply for a simple move or an extension of a branch 1717 circuit or an outlet which does not significantly increase the existing electrical load. This 1718 exception does not include changes involving remodeling or additions to a residence."

[(2)] (3) IRC, Chapter 44, is amended by adding the following reference standard:

1720	"Standard reference number	Title	Referenced in code section number
1721	USC-FCCCHR 10th	Foundation for Cross-Connection Control	Table P2902.3"
	Edition Manual of	and Hydraulic Research University of	
	Cross Connection	Southern California Kaprielian Hall 300	
	Control	Los Angeles CA 90089-2531	

- Section 21. Section **15A-3-302** is amended to read:
- 1723 15A-3-302. Amendments to Chapters 1 and 2 of IPC.
- 1724 (1) A new IPC, Section [101.2] 101.2.1, is added as follows: "For clarification, the
  1725 International Private Sewage Disposal Code is not part of the plumbing code even though it is
  1726 in the same printed volume."
- 1727 (2) In IPC, Section 202, the definition for "Backflow Backpressure, Low Head" is deleted.
- 1729 (3) In IPC, Section 202, the following definition is added: "Certified Backflow

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- Preventer Assembly Tester. A person who has shown competence to test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction under Utah Code, Subsection 1732 19-4-104(4)."
  - (4) In IPC, Section 202, the following definition is added: "Contamination (High Hazard). An impairment of the quality of the potable water that creates an actual hazard to the public health through poisoning or through the spread of disease by sewage, industrial fluids or waste."
    - (5) In IPC, Section 202, the definition for "Cross Connection" is deleted and replaced with the following: "Cross Connection. Any physical connection or potential connection or arrangement between two otherwise separate piping systems, one of which contains potable water and the other either water of unknown or questionable safety or steam, gas, or chemical, whereby there exists the possibility for flow from one system to the other, with the direction of flow depending on the pressure differential between the two systems (see "Backflow")."
    - (6) In IPC, Section 202, the following definition is added: "Deep Seal Trap. A manufactured or field fabricated trap with a liquid seal of 4" or larger."
    - [(7) In IPC, Section 202, in the definition for gray water a comma is inserted after the word "washers"; the word "and" is deleted; and the following is added to the end: "and clear water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without objectionable odors; non-highly pigmented; and will not interfere with the operation of the sewer treatment facility."]
  - (7) In IPC, Section 202, the definition for "Essentially Nontoxic Transfer Fluid" is deleted and replaced with the following:
- "ESSENTIALLY NONTOXIC TRANSFER FLUID. Fluids having a Gosselin rating of 1,
   including propylene glycol; and mineral oil."
- 1754 (8) In IPC, Section 202, the definition for "Essentially Toxic Transfer Fluid" is deleted
  1755 and replaced with the following:
- "ESSENTIALLY TOXIC TRANSFER FLUID. Soil, waste, or gray water; and any fluid that is
   not an essentially nontoxic transfer fluid under this code."
- 1758 [(8)] (9) In IPC, Section 202, the following definition is added: "High Hazard. See Contamination."
- 1760 [(9)] (10) In IPC, Section 202, the following definition is added: "Low Hazard. See

1761	Pollution.'
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- 1762 [(10)] (11) In IPC, Section 202, the following definition is added: "Pollution (Low
- Hazard). An impairment of the quality of the potable water to a degree that does not create a
- hazard to the public health but that does adversely and unreasonably affect the aesthetic
- 1765 qualities of such potable water for domestic use."
- 1766 [(11)] (12) In IPC, Section 202, the definition for "Potable Water" is deleted and
- replaced with the following: "Potable Water. Water free from impurities present in amounts
- sufficient to cause disease or harmful physiological effects and conforming to the Utah Code,
- 1769 Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water Quality Act, and
- the regulations of the public health authority having jurisdiction."
- 1771 Section 22. Section **15A-3-303** is amended to read:
- 1772 15A-3-303. Amendments to Chapter 3 of IPC.
- 1773 (1) In IPC, Section 303.4, the following exception is added:
- 1774 "Exception: Third-party certification for backflow prevention assemblies will consist of any
- 1775 combination of two certifications, laboratory or field. Acceptable third party laboratory
- 1776 certifying agencies are ASSE, IAPMO, and USC-FCCCHR. USC-FCCCHR currently
- provides the only field testing of backflow protection assemblies. Also see
- 1778 www.drinkingwater.utah.gov and Division of Drinking Water Rule, Utah Administrative Code,
- 1779 R309-305-6."
- 1780 [(2) IPC, Section 304.3, Meter Boxes, is deleted.]
- 1781 (2) IPC, Section 307.5, Protection of footings, is deleted.
- 1782 (3) IPC, Section 311.1, is deleted.
- 1783 (4) In IPC, Section 312.3, the following is added at the end of the paragraph:
- "Where water is not available at the construction site or where freezing conditions limit
- the use of water on the construction site, plastic drainage and vent pipe may be permitted to be
- tested with air. The following procedures shall be followed:
- 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can
- 1788 explode, causing serious injury or death.
- 2. Contractor assumes all liability for injury or death to persons or damage to property or for
- 1790 claims for labor and/or material arising from any alleged failure of the system during testing
- with air or compressed gasses.

- 3. Proper personal protective equipment, including safety eyewear and protective headgear,
- should be worn by all individuals in any area where an air or gas test is being conducted.
- 4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.
- 5. No [water supply] drain and vent system shall be pressurized in excess of 6 psi as measured
- by accurate gauges graduated to no more than three times the test pressure.
- 1797 6. The pressure gauge shall be monitored during the test period, which should not exceed 15
- minutes.
- 1799 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or
- gases should be vented, and test balls and plugs should be removed with caution."
- 1801 (5) In IPC, Section 312.5, the following is added at the end of the paragraph:
- 1802 "Where water is not available at the construction site or where freezing conditions limit the use
- of water on the construction site, plastic water pipes may be permitted to be tested with air.
- 1804 The following procedures shall be followed:
- 1805 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can
- 1806 explode, causing serious injury or death.
- 2. Contractor assumes all liability for injury or death to persons or damage to property or for
- claims for labor and/or material arising from any alleged failure of the system during testing
- 1809 with air or compressed gasses.
- 1810 3. Proper personal protective equipment, including safety eyewear and protective headgear,
- should be worn by all individuals in any area where an air or gas test is being conducted.
- 4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.
- 1813 5. Water supply systems shall be pressure tested to a minimum of 50 psi but not more than 80
- psi as measured by accurate gauges graduated to no more than three times the test pressure.
- 1815 6. The pressure gauge shall be monitored during the test period, which should not exceed 15
- minutes.
- 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or
- gases should be vented, and test balls and plugs should be removed with caution."
- 1819 (6) A new IPC, Section 312.10.3, is added as follows: "312.10.3 Tester Qualifications.
- 1820 Testing shall be performed by a Utah Certified Backflow Preventer Assembly Tester in
- accordance with Utah Administrative Code, R309-305."
- Section 23. Section **15A-3-304** is amended to read:

1823	15A-3-304. Amendments to Chapter 4 of IPC.
1824	(1) In IPC, Table 403.1, the following changes are made:
1825	(a) The title for Table 403.1 is deleted and replaced with the following: "Table 403.1,
1826	Minimum Number of Required Plumbing [Facilities <sup>a, h</sup> ] Fixtures <sub>a, h</sub> ";
1827	(b) In [the] row [for] number "3", for "E" occupancy, in the field for "OTHER", a new
1828	footnote [i] g is added.
1829	(c) In [the] row number "5", for "I-4 Adult day care and child day care" occupancy, in
1830	the field for "OTHER", a new footnote [i] g is added.
1831	(d) A new footnote $[h]$ $\underline{f}$ is added as follows: "FOOTNOTE: $[h]$ $\underline{f}$ . When provided, in
1832	public toilet facilities, there shall be an equal number of diaper changing facilities in male toilet
1833	rooms and female toilet rooms. Diaper changing facilities shall meet the requirements of
1834	ASTM F2285-04 (2010) Standard Consumer Safety Performance Specifications for Diaper
1835	Changing Tables for Commercial Use."
1836	(e) A new footnote $[i]$ $g$ is added to the table as follows: "FOOTNOTE $[i]$ $g$ :
1837	Non-residential child care facilities shall comply [with additional sink requirements of Utah
1838	Administrative Code R430-100-4.] with the additional requirements for sinks in administrative
1839	rule made by the Department of Health."
1840	(2) A new IPC, Section 406.3, is added as follows: "406.3 Automatic clothes washer
1841	safe pans. Safe pans, when installed under automatic clothes washers, shall be installed in
1842	accordance with Section 504.7."
1843	(3) A new IPC, Section 412.5, is added as follows: "412.5 Public toilet rooms. All
1844	public toilet rooms in A & E occupancies and M occupancies with restrooms having multiple
1845	water closets or urinals shall be equipped with at least one floor drain."
1846	(4) IPC, Section 423.3, is deleted.
1847	Section 24. Section <b>15A-3-305</b> is amended to read:
1848	15A-3-305. Amendments to Chapter 5 of IPC.
1849	(1) IPC, Section 502.4, is deleted and replaced with the following: "502.4 Seismic
1850	supports. [Appliances designed to be fixed in position shall be fastened or anchored in an
1851	approved manner. Water] As a minimum requirement, water heaters shall be anchored or
1852	strapped to resist horizontal displacement caused by earthquake motion. Strapping shall be at
1853	points within the upper one-third and lower one-third of the appliance's vertical dimensions.

- 1854 [At the lower point, the strapping shall maintain a minimum distance of 4 inches (102 mm)
  1855 above the controls.]"
  - (2) In IPC, Section 504.7.2, the following is added at the end of the section: "When permitted by the code official, the pan drain may be directly connected to a soil stack, waste stack, or branch drain. The pan drain shall be individually trapped and vented as required in Section 907.1. The pan drain shall not be directly or indirectly connected to any vent. The trap shall be provided with a trap primer conforming to ASSE 1018 or ASSE 1044, a barrier type floor drain trap seal protection device meeting ASSE 1072, or a deep seal p-trap."
  - (3) A new IPC, Section 504.7.3, is added as follows: "504.7.3 Pan Designation. A water heater pan shall be considered an emergency receptor designated to receive the discharge of water from the water heater only and shall not receive the discharge from any other fixtures, devises, or equipment."
    - Section 25. Section 15A-3-306 is amended to read:

## 15A-3-306. Amendments to Chapter 6 of IPC.

- (1) IPC, Section 602.3, is deleted and replaced with the following: "602.3 Individual water supply. Where a potable public water supply is not available, individual sources of potable water supply shall be utilized provided that the source has been developed in accordance with Utah Code, Sections 73-3-1, 73-3-3, and 73-3-25, as administered by the Department of Natural Resources, Division of Water Rights. In addition, the quality of the water shall be approved by the local health department having jurisdiction. The source shall supply sufficient quantity of water to comply with the requirements of this chapter."
- (2) IPC, Sections 602.3.1, 602.3.2, 602.3.3, 602.3.4, 602.3.5, and 602.3.5.1, are deleted.
- (3) A new IPC, Section 604.4.1, is added as follows: "604.4.1 Manually operated metering faucets for food service establishments. Self closing or manually operated metering faucets shall provide a flow of water for at least 15 seconds without the need to reactivate the faucet."
- (4) IPC, Section 606.5, is deleted and replaced with the following: "606.5 Water pressure booster systems. Water pressure booster systems shall be provided as required by Section 606.5.1 through 606.5.11."
- (5) A new IPC, Section 606.5.11, is added as follows: "606.5.11 Prohibited

installation. In no case shall a booster pump be allowed that will lower the pressure in the public main to less than the minimum water pressure specified in Utah Administrative Code R309-105-9."

(6) In IPC, Section 608.1, the words "and pollution" are added after the word "contamination."

[(7) IPC, Table 608.1, is deleted and replaced with the following:]

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"TABLE 608,1				
Application of Back Flow Preventers				
<del>DEVICE</del>	DEGREE OF	APPLICATION <sup>b</sup>	APPLICABLE	
	HAZARD*		<del>STANDARDS</del>	
BACKFLOW PREVENT	FION ASSEMBLIES:			
Double check backflow	Low hazard	Backpressure or	ASSE 1015, AWWA	
prevention assembly		backsiphonage	C510, CSA B64.5,	
and double check fire		Sizes 3/8" - 16"	CSA B64.5.1	
protection backflow				
prevention assembly				
Double check detector	Low hazard	Backpressure or	ASSE 1048	
fire protection		backsiphonage		
backflow prevention		<del>Sizes 3/8" - 16"</del>		
assemblies				
Pressure vacuum	High or low hazard	Backsiphonage only	ASSE 1020, CSA	
breaker assembly		Sizes 1/2" - 2"	<del>B64.1.2</del>	
Reduced pressure	High or low hazard	Backpressure or	ASSE 1013, AWWA	
principle backflow		backsiphonage	C511, CSA B64.4,	
prevention assembly		<del>Sizes 3/8" - 16"</del>	CSA B64.4.1	
and reduced pressure				
principle fire				
protection backflow				
assembly				

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1900	Reduced pressure	High or low hazard	Backpressure or	ASSE 1047
	detector fire protection		backsiphonage (Fire	
	backflow prevention		<del>Sprinkler Systems)</del>	
	assemblies			
1901	Spill-resistant vacuum	High or low hazard	Backsiphonage only	ASSE 1056
	breaker assembly		<del>Sizes 1/2" - 2"</del>	
1902	BACKFLOW PREVENTER PLUMBING DEVICES:			
1903	Antisiphon-type fill	High hazard	Backsiphonage only	ASSE 1002, CSA
	valves for gravity water			B125.3
	<del>closet flush tanks</del>			
1904	Backflow preventer for	Low hazard	Backpressure or	ASSE 1022
	carbonated beverage		backsiphonage	
	machines		<del>Sizes 1/4" - 3/8"</del>	
1905	Backflow preventer	Low hazard	Backpressure or	ASSE 1012, CSA
	with intermediate		backsiphonage	<del>B64.3</del>
	atmospheric vents		Sizes 1/4" - 3/8"	
1906	Dual check valve type	Low hazard	Backpressure or	ASSE 1024, CSA
	backflow preventers		backsiphonage	<del>B64.6</del>
			<del>Sizes 1/4" - 1"</del>	
1907	Hose connection	High or low hazard	Backsiphonage only	ASSE 1052, CSA
	backflow preventer		<del>Sizes 1/2" - 1"</del>	B64.2, B64.2.1
1908	Hose connection	High or low hazard	Backsiphonage only	ASSE 1011,
	vacuum breaker		Sizes 1/2", 3/4", 1"	CAN/CSA B64.1.1
1909	Atmospheric type	High or low hazard	Backsiphonage only	ASSE 1001, CSA
	vacuum breaker		Sizes 1/2" - 4"	<del>B64.1.1</del>
1910	Vacuum breaker wall	High or low hazard	Backsiphonage only	ASSE 1019, CSA
	hydrants, frost		Sizes 3/4", 1"	<del>B64.2.2</del>
	resistant, automatic			
	draining type			
1911	OTHER MEANS or ME	THODS:		

1912	- <del>Air gap</del>	High or low hazard	Backsiphonage only	ASME A112.1.2
1913	Air gap fittings for use	High or low hazard	Backpressure or	ASME A112.1.3
	with plumbing fixtures,		<del>backsiphonage</del>	
	appliances and			
	appurtenances			
1914	For SI: 1 inch = 25.4 mm			
1915	a. Low Hazard - See Pollution (Section 202), High Hazard - See Contamination (Section			
	<del>202)</del>			
1916	b. See Backpressure (Section 202), See Backpressure, low head (Section 202), See			
	Backsiphonage (Section:	<del>202)</del>		
1917	Installation Guidelines: The above specialty devices shall be installed in accordance with			
	their listing and the manufacturer's instructions and the specific provisions of this chapter."			

- 1918 ] (7) In IPC, Section 608.1, the following subsections are added as follows:
- 1919 "608.1.1 General Installation Criteria.
- An assembly shall not be installed more than five feet above the floor unless a permanent
- platform is installed. The assembly owner, where necessary, shall provide devices or structures
- to facilitate testing, repair, and maintenance and to insure the safety of the backflow technician.
- 1923 608.1.2 Specific Installation Criteria.
- 1924 608.1.2.1 Reduced Pressure Principle Blackflow Prevention Assembly.
- 1925 A reduced pressure principle backflow prevention assembly shall be installed as follows:
- 1926 a. The assembly shall not be installed in a pit.
- b. The relief valve of the assembly shall not be directly connected to a waste disposal line,
- including a sanitary sewer, storm drain, or vent.
- 1929 c. The assembly shall be installed in a horizontal position, unless the assembly is listed or
- approved for vertical installation in accordance with Section 303.4.
- d. The bottom of each assembly shall be installed a minimum of 12 inches above the ground or
- the floor.
- 1933 e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or
- obstacle, and shall be readily accessible for testing, repair, and maintenance.
- 1935 608.1.2.2 Double Check Valve Backflow Prevention Assembly.

- 1936 A double check valve backflow prevention assembly shall be installed as follows:
- a. The assembly shall be installed in a horizontal position unless the assembly is listed or
- approved for vertical installation.
- b. The bottom of the assembly shall be a minimum of 12 inches above the ground or the floor.
- 1940 c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or
- obstacle, and shall be readily accessible for testing, repair, and maintenance.
- d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of clearance
- around all sides of the vault, including the floor and roof or ceiling, with adequate room for
- testing and maintenance.
- 1945 608.1.2.3 Pressure Vacuum Break Assembly and Spill Resistant Pressure Vacuum Breaker
- 1946 Assembly.
- A pressure vacuum break assembly and spill resistant pressure vacuum breaker assembly shall
- be installed as follows:
- 1949 a. The assembly shall not be installed in an area that could be subject to backpressure or back
- drainage conditions.
- b. The assembly shall be installed a minimum of 12 inches above all downstream piping and
- the highest point of use.
- 1953 c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall
- be readily accessible for testing, repair, and maintenance.
- d. The assembly shall not be installed below ground or in a vault or pit.
- e. The assembly shall be installed in a vertical position."
- 1957 (8) In IPC, Section 608.3, the word "and" after the word "contamination" is deleted and
- replaced with a comma and the words "and pollution" are added after the word "contamination"
- in the first sentence.
- 1960 (9) In IPC, Section 608.5, the words "with the potential to create a condition of either
- 1961 contamination or pollution or" are added after the word "substances".
- 1962 (10) In IPC, Section 608.6, the following sentence is added at the end of the paragraph:
- 1963 "Any connection between potable water piping and sewer-connected waste shall be protected
- by an air gap in accordance with Section 608.13.1."
- 1965 (11) IPC, Section 608.7, is deleted and replaced with the following: "608.7 Stop and
- 1966 Waste Valves installed below grade. Combination stop-and-waste valves shall be permitted to

- be installed underground or below grade. Freeze proof yard hydrants that drain the riser into the ground are considered to be stop-and-waste valves and shall be permitted. A stop-and-waste valve shall be installed in accordance with a manufacturer's recommended installation instructions."
  - (12) In IPC, Section 608.11, the following sentence is added at the end of the paragraph: "The coating and installation shall conform to NSF Standard 61 and application of the coating shall comply with the manufacturer's instructions."
  - (13) IPC, Section 608.13.3, is deleted and replaced with the following: "608.13.3 Backflow preventer with intermediate atmospheric vent. Backflow preventers with intermediate atmospheric vents shall conform to ASSE 1012 or CSA CAN/CSA-B64.3. These devices shall be permitted to be installed on residential boilers only, without chemical treatment, where subject to continuous pressure conditions. The relief opening shall discharge by air gap and shall be prevented from being submerged."
    - (14) IPC, Section 608.13.4, is deleted.
  - (15) IPC, Section 608.13.9, is deleted and replaced with the following: "608.13.9 Chemical dispenser backflow devices. Backflow devices for chemical dispensers shall comply with Section 608.16.7."
  - (16) IPC, Section 608.15.3, is deleted and replaced with the following: "608.15.3 Protection by a backflow preventer with intermediate atmospheric vent. Connections to residential boilers only, without chemical treatment, shall be protected by a backflow preventer with an intermediate atmospheric vent."
  - (17) IPC, Section 608.15.4, is deleted and replaced with the following: "608.15.4 Protection by a vacuum breaker. Openings and outlets shall be protected by atmospheric-type or pressure-type vacuum breakers. Vacuum breakers shall not be installed under exhaust hoods or similar locations that will contain toxic fumes or vapors. Fill valves shall be set in accordance with Section 425.3.1. Atmospheric Vacuum Breakers The critical level of the atmospheric vacuum breaker shall be set a minimum of 6 inches (152 mm) above the flood level rim of the fixture or device. Pipe-applied vacuum breakers shall be installed not less than 6 inches (152 mm) above the flood level rim of the fixture, receptor, or device served. No valves shall be installed downstream of the atmospheric vacuum breaker. Pressure Vacuum Breaker The critical level of the pressure vacuum breaker shall be set a minimum of 12 inches

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1998 (304 mm) above the flood level of the fixture or device." 1999 (18) In IPC, Section 608.15.4.2, the following is added after the first sentence: 2000 "Add-on-backflow prevention devices shall be non-removable. In climates where freezing 2001 temperatures occur, a listed self-draining frost proof hose bibb with an integral backflow 2002 preventer shall be used." 2003 (19) IPC, Section 608.16.2, is deleted and replaced as follows: "608.16.2 Connections 2004 to boilers. The potable supply to a boiler shall be protected by an air gap or a reduced pressure 2005 principle backflow preventer, complying with ASSE 1013, CSA B64.4 or AWWA C511. 2006 Exception: The potable supply to a residential boiler without chemical treatment may be 2007 equipped with a backflow preventer with an intermediate atmospheric vent complying with 2008 ASSE 1012 or CSA CAN/CSA-B64.3." 2009 [(20) IPC, Section 608.16.3, is deleted and replaced with the following: "608.16.3 Heat 2010 exchangers. Heat exchangers shall be separated from potable water by double-wall 2011 construction. An air gap open to the atmosphere shall be provided between the two walls.] 2012 [Exceptions:] 2013 1. Single wall heat exchangers shall be permitted when all of the following conditions are 2014 met: 2015 a. It utilizes a heat transfer medium of potable water or contains only substances which are 2016 recognized as safe by the United States Food and Drug Administration (FDA); 2017 [b. The pressure of the heat transfer medium is maintained less than the normal minimum 2018 operating pressure of the potable water system; and] 2019 [c. The equipment is permanently labeled to indicate only additives recognized as safe by the 2020 FDA shall be used.] 2021 [2. Steam systems that comply with paragraph 1 above.] 2022 [3. Approved listed electrical drinking water coolers."] 2023  $\left[\frac{(21)}{(21)}\right]$  (20) In IPC, Section 608.16.4.1, a new exception is added as follows: 2024 "Exception: All class 1 and 2 systems containing chemical additives consisting of strictly 2025 glycerine (C.P. or U.S.P. 96.5 percent grade) or propylene glycol shall be protected against 2026 backflow with a double check valve assembly. Such systems shall include written certification

[(22)] (21) IPC, Section 608.16.7, is deleted and replaced with the following: "608.16.7

of the chemical additives at the time of original installation and service or maintenance."

2029	Chemical dispensers. Where chemical dispensers connect to the water distribution system, the
2030	water supply system shall be protected against backflow in accordance with Section 608.13.1,
2031	Section 608.13.2, Section 608.13.5, Section 608.13.6 or Section 608.13.8. <u>Installation shall be</u>
2032	in accordance with Section 608.1.2. Chemical dispensers shall connect to a separate dedicated
2033	water supply [separate from any] line, and not a sink faucet."
2034	[(23)] (22) IPC, Section 608.16.8, is deleted and replaced with the following: "608.16.8
2035	Portable cleaning equipment. Where the portable cleaning equipment connects to the water
2036	distribution system, the water supply system shall be protected against backflow in accordance
2037	with Section 608.13.1[ <del>-</del> ] or Section 608.13.2 [or Section 608.13.8]."
2038	[ <del>(24)</del> ] <u>(23)</u> A new IPC, Section 608.16.11, is added as follows: "608.16.11 Automatic
2039	and coin operated car washes. The water supply to an automatic or coin operated car wash
2040	shall be protected in accordance with Section 608.13.1 or Section 608.13.2."
2041	[(25)] (24) IPC, Section 608.17, is deleted and replaced with the following: "608.17
2042	Protection of individual water supplies. See Section 602.3 for requirements."
2043	Section 26. Section 15A-3-308 is amended to read:
2044	15A-3-308. Amendments to Chapter 8 of IPC.
2045	[ <del>IPC, Chapter 8, is not amended.</del> ]
2046	In IPC, Section 802.1.1, the last sentence is deleted.
2047	Section 27. Section <b>15A-3-310</b> is amended to read:
2048	15A-3-310. Amendments to Chapter 10 of IPC.
2049	[In IPC, Section 1002.4, the following is added at the end of the paragraph: "Approved
2050	Means of Maintaining Trap Seals. Approved means of maintaining trap seals include the
2051	following, but are not limited to the methods cited:]
2052	[1. A listed trap seal primer conforming to ASSE 1018 and ASSE 1044.]
2053	[2. A hose bibb or bibbs within the same room.]
2054	[3. Drainage from an untrapped lavatory discharging to the tailpiece of those fixture
2055	traps which require priming. All fixtures shall be in the same room and on the same floor level
2056	as the trap primer.]
2057	[4. Barrier type floor drain trap seal protection device meeting ASSE Standard 1072.]
2058	[5. Deep seal p-trap".]
2059	IPC, Chapter 10, is not amended.

2000	Section 28. Section 15A-3-311 is amended to read:
2061	15A-3-311. Amendments to Chapter 11 of IPC.
2062	[(1) IPC, Section 1104.2, is deleted and replaced with the following: "1104.2
2063	Combining storm and sanitary drainage prohibited. The combining of sanitary and storm
2064	drainage systems is prohibited."]
2065	(1) A new IPC, Section 1106.1.1, is added as follows:
2066	"1106.1.1 Alternate Methods.
2067	An approved alternate storm drain sizing method may be allowed."
2068	(2) IPC, Section 1109, is deleted.
2069	Section 29. Section 15A-3-313 is amended to read:
2070	15A-3-313. Amendments to Chapter 13 of IPC.
2071	[(1) In IPC, Section 1301.1, all words after the word "urinals" are deleted and the
2072	following sentence is added at the end: "Gray water recycling systems for subsurface landscape
2073	irrigation shall conform with UAC R317-401 Gray Water Systems."]
2074	[(2) A new IPC, Section 1301.1.1, is added as follows: "1301.1.1 Recording. The
2075	existence of a gray water recycling system shall be recorded on the deed of ownership for that
2076	property. The certificate of occupancy shall not be issued until the documentation of the
2077	recording required under this section is completed by the owner."]
2078	[(3) In IPC, Section 1301.2, the words "and systems for subsurface landscape irrigation
2079	shall comply with Section 1303" are deleted.]
2080	[(4) IPC, Section 1301.6, is deleted and replaced with the following: "1301.6 Potable
2081	water connections. The potable water supply to any building utilizing a gray water recycling
2082	system shall be protected against backflow by a reduced pressure backflow prevention
2083	assembly installed in accordance with Section 608."]
2084	[(5) In IPC, Section 1301.7, the following is added at the end of the sentence: "and
2085	other clear water wastes which have a pH of 6.0 to 9.0; are non-flammable, non-combustible;
2086	without objectionable odor; non-highly pigmented; and will not interfere with the operation of
2087	the sewer treatment facility."]
2088	[(6) In IPC, Section 1302.3, in the second sentence, the following is added between the
2089	words "backflow" and "in": "by a reduced pressure backflow prevention assembly or an air gap
2090	installed".]

2091	[ <del>(7) IPC, Section 1303, is deleted and replaced with the following: "Section 1303</del>
2092	SUBSURFACE LANDSCAPE IRRIGATION SYSTEMS. Gray water recycling systems
2093	utilized for subsurface irrigation for single family residences shall comply with the
2094	requirements of UAC R317-401, Gray Water Systems. Gray water recycling systems utilized
2095	for subsurface irrigation for other occupancies shall comply with UAC R317-3, Design
2096	Requirements for Wastewater Collection, Treatment and Disposal and UAC R317-4, Onsite
2097	Waterwaste Systems."]
2098	(1) A new IPC, Section 1301.4.1, is added as follows:
2099	"1301.4.1 Recording.
2100	The existence of a nonpotable water system shall be recorded on the deed of ownership for the
2101	property. The certificate of occupancy shall not be issued until the documentation for the
2102	recording required under this section is completed by the property owner."
2103	(2) IPC, Section 1301.5, is deleted and replaced with the following:
2104	"1301.5 Potable water connections.
2105	Where a potable water system is connected to a nonpotable water system, the potable water
2106	supply shall be protected against backflow by a reduced pressure backflow prevention
2107	assembly or an air gap installed in accordance with Section 608."
2108	(3) IPC, Section 1301.9.5, is deleted and replaced with the following:
2109	"1301.9.5 Makeup water.
2110	Where an uninterrupted supply is required for the intended application, potable or reclaimed
2111	water shall be provided as a source of makeup water for the storage tank. The makeup water
2112	supply shall be protected against backflow by a reduced pressure backflow prevention
2113	assembly or an air gap installed in accordance with Section 608. A full-open valve located on
2114	the makeup water supply line to the storage tank shall be provided. Inlets to the storage tank
2115	shall be controlled by fill valves or other automatic supply valves installed to prevent the tank
2116	from overflowing and to prevent the water level from dropping below a predetermined point.
2117	Where makeup water is provided, the water level shall not be permitted to drop below the
2118	source water inlet or the intake of any attached pump."
2119	(4) IPC, Section 1302.12.4, is deleted and replaced with the following:
2120	"1302.12.4 Inspection and testing of backflow prevention assemblies.
2121	Testing of a backflow preventer shall be conducted in accordance with Sections 312.10.1.

- 2122 312.10.2, and 312.10.3." 2123 (5) IPC, Section 1303.15.6, is deleted and replaced with the following: 2124 "1303.15.6 Inspection and testing of backflow prevention assemblies. Testing of a backflow prevention assembly shall be conducted in accordance with Sections 2125 2126 312.10.1, 312.10.2, and 312.10.3." 2127 (6) IPC, Section 1304.4.2, is deleted and replaced with the following: "1304.4.2 Inspection and testing of backflow prevention assemblies. 2128 Testing of a backflow preventer or backwater valve shall be conducted in accordance with 2129 2130 Sections 312.10.1, 312.10.2, and 312.10.3." 2131 Section 30. Section **15A-3-314** is amended to read: 2132 15A-3-314. Amendments to Chapter 14 of IPC. 2133 (1) In IPC, Chapter 14, the following referenced standard is added under ASSE: 2134 2135 "Standard **Title** Referenced in code section reference number number 2136 <del>1072-2007</del> Performance Requirements for Barrier <del>1004.2"</del> Type Floor Drain Trap Seal Protection **Devices** 2137 [(2) In IPC, Chapter 14, the following referenced standard is added:] 2138 2139 "Standard **Title** Referenced in code section reference number number 2140 **USC-FCCCHR** Foundation for Cross-Connection Table 608.1" 10th Edition Control and Hydraulic Research **Manual of Cross** University of Southern California Connection Kaprielian Hall 300 Los Angeles CA Control 90089-2531 2141 IPC, Chapter 14, is deleted and replaced with the following:
- in C, Chapter 14, is defected and replaced with the following
- 2142 "1401. Subsurface Landscape Irrigation Systems.
- 2143 Gray water recycling systems utilized for subsurface irrigation for single-family residences

2144 shall comply with the requirements of UAC R317-401, Gray Water Systems. Gray water 2145 recycling systems utilized for subsurface irrigation for other occupancies shall comply with 2146 UAC R317-3, Design Requirements for Wastewater Collection, Treatment, and Disposal, and 2147 UAC R317-4, Onsite Waterwaste Systems." 2148 Section 31. Section 15A-3-315 is enacted to read: 2149 15A-3-315. Amendments to Chapter 15 of IPC. In IPC, Chapter 15, the following referenced standard is added: 2150 2151 Referenced in code section "Standard Title reference number number Foundation for Cross-Connection 2152 **USC-FCCCHR** Table 608.1" 10th Edition Control and Hydraulic Research

2153 Section 32. Section **15A-3-401** is amended to read:

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2154 **15A-3-401.** General provisions.

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2155 The following are adopted as amendments to the IMC to be applicable statewide:

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- [(1) In IMC, Section 202, the definition for "CONDITIONED SPACE" is deleted and replaced with the following: "CONDITIONED SPACE. An area, room, or space enclosed within the building thermal envelope that is directly heated or cooled, or indirectly heated or cooled by any of the following means:]
- 2160 [1. Openings directly into an adjacent conditioned space.]
- 2161 [2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.]
- 2162 [3. Un-insulated duct, piping or other heat or cooling source within the space."]
  - [(2) In IMC, Section 403.2.1, Item 3, is deleted and replaced with the following:
    "Except as provided in Table 403.3, Note h, where mechanical exhaust is required by Note b in Table 403.3, recirculation of air from such spaces is prohibited. All air supplied to such spaces shall be exhausted, including any air in excess of that required by Table 403.3."
- 2167 [(3) In IMC, Table 403.3, Note b, is deleted and replaced with the following: "Except as provided in Note h, mechanical exhaust required and the recirculation of air from such

2169	spaces is prohibited (see Section 403.2.1, Item 3)."]
2170	[(4) In IMC, Table 403.3, Note h is deleted and replaced with the following:
2171	["1. For a nail salon where a nail technician files or shapes an acrylic nail, as defined
2172	by rule by the Division of Occupational and Professional Licensing, in accordance with Title
2173	63G, Chapter 3, Utah Administrative Rulemaking Act, each nail station where a nail technician
2174	files or shapes an acrylic nail shall be provided with:]
2175	[a. a source capture system capable of filtering and recirculating air to inside space not
2176	less than 50 cfm per station; or]
2177	[b. a source capture system capable of exhausting not less than 50 cfm per station."]
2178	[2. Except as provided in paragraph 3, the requirements described in paragraph 1 apply
2179	beginning on July 1, 2020.]
2180	[3. The requirements described in paragraph 1 apply beginning on July 1, 2014 if the
2181	nail salon is under or begins new construction or remodeling on or after July 1, 2014.]
2182	[(5) In IMC, Section 403, a new Section 403.8 is added as follows: "Retrospective
2183	effect. Removal, alteration, or abandonment shall not be required, and continued use and
2184	maintenance shall be allowed, for a ventilation system within an existing installation that
2185	complies with the requirements of this Section 403 regardless of whether the ventilation system
2186	satisfied the minimum ventilation rate requirements of prior law."]
2187	[(6) In IMC, Table 603.4, in the section "Round ducts and enclosed rectangular ducts",
2188	the word "enclosed" is deleted; the words "14 inches or less" are deleted and replaced with
2189	"over 8 inches but less than 15 inches"; the wording "8 inches or less" under duct size, "0.013"
2190	under minimum thickness (in.), "30" under equivalent gage no., and "0.0159" under aluminum
2191	minimum thickness (in.), are added; and the section "Exposed rectangular ducts" is deleted.]
2192	$[\frac{7}{2}]$ (1) In IMC, Section 1004.2, the first sentence is deleted and replaced with the
2193	following: "[Boilers] In accordance with Title 34A, Chapter 7, Safety, and requirements made
2194	by rule by the Labor Commission, boilers and pressure vessels in Utah are regulated by the
2195	Utah Labor Commission, Division of Boiler, Elevator and Coal Mine Safety, except those
2196	located in private residences or in apartment houses of less than five family units. Boilers shall
2197	be installed in accordance with their listing and labeling, with minimum clearances as
2198	prescribed by the manufacturer's installation instructions and the state boiler code, whichever is
2199	greater."

2200	[(8)] (2) In IMC, Section 1004.3.1, the word "unlisted" is inserted before the word
2201	"boilers".
2202	[ <del>(9)</del> ] <u>(3)</u> IMC, Section 1101.10, is deleted.
2203	(4) In IMC, Section 1209.3, the following words are added at the end of the section:
2204	"or other methods approved for the application."
2205	Section 33. Section 15A-3-501 is amended to read:
2206	15A-3-501. General provisions.
2207	The following are adopted as an amendment to the IFGC to be applicable statewide:
2208	(1) In IFGC, Section 404.9, a new Section 404.9.1, is added as follows: "404.9.1 Meter
2209	protection. Fuel gas services shall be in an approved location and/or provided with structures
2210	designed to protect the fuel gas meter and surrounding piping from physical damage, including
2211	falling, moving, or migrating ice and snow. If an added structure is used, it must still provide
2212	access for service and comply with the IBC or the IRC."
2213	(2) IFGC, Section 409.5.3, is deleted.
2214	(3) In IFGC, Section 631.2, the following sentence is inserted before the first sentence:
2215	"[Boilers] In accordance with Title 34A, Chapter 7, Safety, and requirements made by rule by
2216	the Labor Commission, boilers and pressure vessels in Utah are regulated by the Utah Labor
2217	Commission, Division of Boiler, Elevator and Coal Mine Safety, except those located in
2218	private residences or in apartment houses of less than five family units. Boilers shall be
2219	installed in accordance with their listing and labeling, with minimum clearances as prescribed
2220	by the manufacturer's installation instructions and the state boiler code, whichever is greater."
2221	Section 34. Section <b>15A-3-601</b> is amended to read:
2222	15A-3-601. General provision.
2223	The following are adopted as amendments to the NEC to be applicable statewide:
2224	(1) The IRC provisions are adopted as the residential electrical standards applicable to
2225	installations applicable under the IRC. All other installations shall comply with the adopted
2226	NEC.
2227	[(2) In NEC, Section 310.15(B)(7), the second sentence is deleted and replaced with
2228	the following: "For application of this section, the main power feeder shall be the feeder(s)
2229	between the main disconnect and the panelboard(s)."]
2230	(2) NEC, Section 240.87(B), is modified to add the following as an additional

2231	approved equivalent means:
2232	"6. An instantaneous trip function set at or below the available fault current."
2233	Section 35. Section 15A-3-701 is amended to read:
2234	15A-3-701. General provisions.
2235	The following is adopted as an amendment to the IECC to be applicable statewide:
2236	[(1) In IECC, Section C202, the definition for "CONDITIONED SPACE" is deleted
2237	and replaced with the following: "CONDITIONED SPACE. An area, room or space enclosed
2238	within the building thermal envelope that is directly heated or cooled, or indirectly heated or
2239	cooled by any of the following means:]
2240	[1. Openings directly into an adjacent conditioned space.]
2241	[2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.]
2242	[3. Un-insulated duct, piping or other heat or cooling source within the space."]
2243	[(2) In IECC, Section C404.4, a new exception is added as follows: "Exception: Heat
2244	traps, other than the arrangement of piping and fittings, shall be prohibited unless a means of
2245	controlling thermal expansion can be ensured as required in the IPC Section 607.3."]
2246	(1) In IECC, Section C403.2.9.1.3, the words "by the designer" are deleted.
2247	[(3)] (2) In IECC, Section R103.2, all words after the words "herein governed." are
2248	deleted and replaced with the following: "Construction documents include all documentation
2249	required to be submitted in order to issue a building permit."
2250	[(4) In IECC, Section R202, the definition for "CONDITIONED SPACE" is deleted
2251	and replaced with the following: "CONDITIONED SPACE. An area, room or space enclosed
2252	within the building thermal envelope that is directly heated or cooled, or indirectly heated or
2253	cooled by any of the following means:]
2254	[1. Openings directly into an adjacent conditioned space.]
2255	[2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.]
2256	[3. Un-insulated duct, piping or other heat or cooling source within the space."]
2257	[(5)] (3) In IECC, Section R303.3, all wording after the first sentence is deleted.
2258	(4) In IECC, Section R401.2, a new number 4 is added as follows:
2259	"4. Compliance may be shown by demonstrating a result of "0 percent better than code" using
2260	the RESCheck "2012 Utah Energy Conservation Code.""
2261	[(6)] (5) In IECC, Table [R402.1.1 and Table R402.1.3, the rows for "climate zone 3",

"climate zone 5 and Marine 4, and climate zone 6" are deleted and replaced and] R402.2, in the column entitled MASS WALL R-VALUE, a new footnote j is added as follows:

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2265	"TABLE R402.1.1										
2266	INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT*										
2267	CLIMATE		SKYLIGHT*	GLAZED FENESTRATION	CEILING	<del>WOOD</del> FRAME WALL	MASS WALL	FLOOR	BASEMENT-	<del>SLAD</del> ⁴ <del>R-VALUE</del>	CRAWL SPACE <sup>+</sup> WALL
	<del>ZONE</del>	U-FACTOR b	U-FACTOR	SHGC	R-VALUE	<del>R-VALUE</del>	R-VALUE 1,1	R-VALUE	R-VALUE	& DEPTH	R-VALUE
2268	- <del>3</del>	<del>0.65</del>	<del>0.65</del>	<del>0.40</del>	<del>30</del>	<del>15</del>	<del>5</del>	<del>19</del>	0	0	<del>5/13</del>
2269	- 5 and Marine 4	<del>0.35</del>	0.60	<del>NR</del>	<del>38</del>	<del>19 or 13 + 5</del> <sup>h</sup>	<del>13</del>	<del>30</del> ਵ	<del>10/13</del>	<del>10, 2 ft</del>	<del>10/13</del>
2270	- <del>6</del>	<del>0.35</del>	0.60	<del>NR</del>	<del>49</del>	<del>19 or 13 + 5</del> <sup>h</sup>	<del>15</del>	<del>30</del> ਵ	<del>10/13</del>	<del>10, 4 ft</del>	10/13

j. Log walls complying with ICC400 and with a minimum average wall thickness of 5" or greater shall be permitted in Zones 5-8 when overall window glazing is .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil), and all other component requirements are met.

-	Ŧ	ABLE R40	<del>02.1.3 EQ</del>	<del>UIVALEN</del>	IT U-FAC	F <del>ORS</del> *		
- <del>CLIMATE</del> <del>ZONE</del>	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR-	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWE SPACE WALL U-FACTOR
- <del>3</del>	<del>0.65</del>	<del>0.65</del>	<del>0.035</del>	0.082	0.141	<del>0.047</del>	<del>0.360</del>	<del>0.136</del>
5 and Marine 4	<del>0.35</del>	0.60	0.030	0.060	0.082	0.033	0.059	<del>0.065</del>
- <del>6</del>	<del>0.35</del>	0.60	0.026	0.060	0.060	0.033	0.059	<del>0.065</del>

2277 ]"j. Log walls complying with ICC400 and with a minimum average wall thickness of 5 inches

or greater shall be permitted in Zones 5 through 8 when overall window glazing has a .31

2279 U-factor or lower, minimum heating equipment efficiency is, for gas, 90 AFUE, or, for oil, 84

2280 AFUE, and all other component requirements are met."

[<del>(7) In IECC, Section R402.2.1, the last sentence is deleted.</del>]

[(8) In IECC, Section R402.2.2, the last sentence is deleted.]

[(9) In IECC, Section R402.3.3, the last sentence is deleted.]

[(10) In IECC, Section R402.3.4, the last sentence is deleted.]

[(11)] (6) In IECC, Section R402.4.1, in the first sentence, the word "and" is deleted and replaced with the word "or".

2287	$[\frac{(12)}{(7)}]$ In IECC, Section R402.4.1.1, the last sentence is deleted and replaced with
2288	the following: "Where allowed by the [building] code official, the builder may certify
2289	compliance to components criteria for items which may not be inspected during regularly
2290	scheduled inspections."
2291	[(13)] (8) In IECC, Section R402.4.1.2, the following changes are made:
2292	(a) In the first sentence, the words "in Climate Zones 1 and 2, and [3] three air changes
2293	per hour in [Zone] Climate Zones 3 through 8" are deleted.
2294	(b) In the third sentence, the [words "Where required by the building official," and the]
2295	word "third" [are] is deleted.
2296	(c) The following sentence is inserted after the third sentence: "The following parties
2297	shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed
2298	contractors who have completed training provided by Blower Door Test equipment
2299	manufacturers or other comparable training."
2300	[(14) In IECC, Section R402.4.4, the last sentence is deleted.]
2301	[(15) In IECC, Section R403.2.2, the requirements for duct tightness testing are deleted
2302	and replaced with the following:]
2303	["1. Postconstruction test: Total leakage shall be less than or equal to 10 cfm (283
2304	L/min) per 100 square feet (9.29 m2) of conditioned floor space when tested at a pressure
2305	differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air
2306	handler enclosure. All register boots shall be taped or otherwise sealed during the test.]
2307	[2. Rough-in test: Total leakage shall be less than or equal to 10 cfm (283 L/min) per
2308	100 square feet (9.29 m2) of conditioned floor area when tested at a pressure differential of at
2309	least 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler
2310	enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is
2311	not installed at the time of the test, total leakage shall be less than or equal to 7.5 cfm (212
2312	L/min) per 100 square feet (9.29 m2) of conditioned floor area."]
2313	[(16)] (9) In IECC, Section [R403.2.2] R403.3.3, the exception for [total] duct air
2314	leakage testing is deleted and replaced with the following: "Exception: The total leakage test is
2315	not required for systems with all air handlers and at least $[50\%]$ 65% of all ducts (measured by
2316	length) located entirely within the building thermal envelope."
2317	(10) In IECC, Section R403.3.3, the following is added after the exception:

2318	"The following parties shall be approved to conduct testing:
2319	1. Parties certified by BPI or RESNET.
2320	2. Licensed contractors who have completed training provided by Duct Test equipment
2321	manufacturers or other comparable training."
2322	(11) In IECC, Section R403.3.4, in Subsection 1, the number 4 is changed to 6, the
2323	number 113.3 is changed to 170, the number 3 is changed to 5, and the number 85 is changed
2324	to 114.6, and in Subsection 2, the number 4 is changed to 8 and the number 113.3 is changed to
2325	<u>226.5.</u>
2326	[(17)] (12) In IECC, Section $[R403.2.3]$ $R403.3.5$ , the words "or plenums" are deleted.
2327	[(18) In IECC, Section R403.4.2, the sentences for "3." and "9." and the last sentence
2328	are deleted.]
2329	[(19) In IECC, Section R403.5, the first sentence is deleted.]
2330	[(20) IECC, Section R404.1 and the exception are deleted, and R404.1.1 becomes
2331	<del>R404.1.</del> ]
2332	[(21) In IECC, Table R405.5.2(1), the following changes are made under the column
2333	STANDARD REFERENCE DESIGN:]
2334	[(a) In the row "Air exchange rate", the words "in Zones 1 and 2, and 3 air changes per
2335	hour in Zones 3 through 8" are deleted.]
2336	[(b) In the row "Heating systems <sup>f,g</sup> ", the standard reference design is deleted and
2337	replaced with the following:
2338	["Fuel Type: same as proposed design]
2339	[Efficiencies:]
2340	[Electric: air source heat pump with prevailing federal minimum efficiencies]
2341	[Nonelectric furnaces: natural gas furnace with prevailing federal minimum
2342	efficiencies]
2343	[Nonelectric boilers: natural gas boiler with prevailing federal minimum efficiencies]
2344	[Capacity: sized in accordance with Section N1103.6"]
2345	[(c) In the row "Cooling systems <sup>f, h</sup> " the words "As proposed" are deleted and replaced
2346	with the following:
2347	["Fuel Type: Electric]
2348	[Efficiency: in accordance with prevailing federal minimum standards"]

2349	(d) In the row "Service water heating", g, n, ", the words "As proposed" are deleted and
2350	replaced with the following:
2351	["Fuel Type: same as proposed design]
2352	[Efficiency: in accordance with prevailing federal minimum standards]
2353	[ <del>Tank Temperature: 120° F"</del> ]
2354	[(e) In the row "Thermal distribution systems" the word "none" is deleted and replaced
2355	with the following: "Thermal distribution system efficiency (DSE) of .080 shall be applied to
2356	both the heating and cooling system efficiencies."]
2357	[(22) In IECC, Table R405.5.2(2), the number "0.80" is inserted under "Forced air
2358	systems" for "Distribution system components located in unconditioned space".]
2359	[(23) The RESCheck Software adopted by the United States Department of Energy and
2360	modified to meet the requirements of this section shall be used to verify compliance with this
2361	section. The software shall address the Total UA alternative approach and account for
2362	Equipment Efficiency Trade-offs when applicable per the standard reference design as
2363	amended.]
2364	(13) In IECC, Section R403.5.3, Subsection 5 is deleted and Subsections 6 and 7 are
2365	renumbered.
2366	(14) In IECC, Section R406.2, the last sentence and exception are deleted.
2367	(15) In IECC, Section R406.4, the table is deleted and replaced with the following:
2368	<u>TABLE R406.4</u>
2369	MAXIMUM ENERGY RATING INDEX

2370CLIMATE ZONE	ENERGY RATING INDEX
<u>23713</u>	<u>65</u>
<u>23725</u>	<u>69</u>
<u>23736</u>	<u>68</u>

2374	Section 36. Section <b>15A-3-801</b> is amended to read:
2375	Part 8. Statewide Amendments to International Existing Building Code
2376	15A-3-801. General provisions.
2377	[Mobile homes built before June 15, 1976 that are subject to relocation, building

alteration, remodeling, or rehabilitation shall comply with the following:

[(1) Related to exits and egress windows:]

- [(a) Egress windows. The home has at least one egress window in each bedroom, or a window that meets the minimum specifications of the U.S. Department of Housing and Urban Development's (HUD) Manufactured Homes Construction and Safety Standards (MHCSS) program as set forth in 24 C.F.R. Parts 3280 and 3282, MHCSS 3280.106 and 3280.404 for manufactured homes. These standards require the window to be at least 22 inches in the horizontal or vertical position in its least dimension and at least five square feet in area. The bottom of the window opening shall be no more than 36 inches above the floor, and the locks and latches and any window screen or storm window devices that need to be operated to permit exiting shall not be located more than 54 inches above the finished floor.]
- [(b) Exits. The home is required to have two exterior exit doors, located remotely from each other, as required in MHCSS 3280.105. This standard requires that single-section homes have the doors no less than 12 feet, center-to-center, from each other, and multisection home doors no less than 20 feet center-to-center from each other when measured in a straight line, regardless of the length of the path of travel between the doors. One of the required exit doors must be accessible from the doorway of each bedroom and no more than 35 feet away from any bedroom doorway. An exterior swing door shall have a 28-inch-wide by 74-inch-high clear opening and sliding glass doors shall have a 28-inch-wide by 72-inch-high clear opening. Each exterior door other than screen/storm doors shall have a key-operated lock that has a passage latch; locks shall not require the use of a key or special tool for operation from the inside of the home.]

## [(2) Related to flame spread:]

[(a) Walls, ceilings, and doors. Walls and ceilings adjacent to or enclosing a furnace or water heater shall have an interior finish with a flame-spread rating not exceeding 25. Sealants and other trim materials two inches or less in width used to finish adjacent surfaces within these spaces are exempt from this provision, provided all joints are supported by framing members or materials with a flame spread rating of 25 or less. Combustible doors providing interior or exterior access to furnace and water heater spaces shall be covered with materials of limited combustibility (i.e., 5/16-inch gypsum board, etc.), with the surface allowed to be interrupted for louvers ventilating the space. However, the louvers shall not be of materials of

2409 greater combustibility than the door itself (i.e., plastic louvers on a wooden door). Reference 2410 MHCSS 3280.203.] 2411 [(b) Exposed interior finishes. Exposed interior finishes adjacent to the cooking range 2412 (surfaces include vertical surfaces between the range top and overhead cabinets, the ceiling, or 2413 both) shall have a flame-spread rating not exceeding 50, as required by MHCSS 3280.203. 2414 Backsplashes not exceeding six inches in height are exempted. Ranges shall have a vertical clearance above the cooking top of not less than 24 inches to the bottom of combustible 2415 cabinets, as required by MHCSS 3280,204(e).1 2416 2417 [(3) Related to smoke detectors:] [(a) Location. A smoke detector shall be installed on any ceiling or wall in the hallway 2418 2419 or space communicating with each bedroom area between the living area and the first bedroom 2420 door, unless a door separates the living area from that bedroom area, in which case the detector shall be installed on the living-area side, as close to the door as practicable, as required by 2421 MHCSS 3280.208. Homes with bedroom areas separated by anyone or combination of 2422 common-use areas such as a kitchen, dining room, living room, or family room (but not a 2423 2424 bathroom or utility room) shall be required to have one detector for each bedroom area. When located in the hallways, the detector shall be between the return air intake and the living areas.] 2425 (b) Switches and electrical connections. Smoke detectors shall have no switches in 2426 2427 the circuit to the detector between the over-current protection device protecting the branch circuit and the detector. The detector shall be attached to an electrical outlet box and connected 2428 by a permanent wiring method to a general electrical circuit. The detector shall not be placed 2429 2430 on the same branch circuit or any circuit protected by a ground-fault circuit interrupter. 2431 [(4) Related to solid-fuel-burning stoves/fireplaces:] 2432 (a) Solid-fuel-burning fireplaces and fireplace stoves. Solid-fuel-burning, factory-built fireplaces, and fireplace stoves may be used in manufactured homes, provided that 2433 2434 they are listed for use in manufactured homes and installed according to their 2435 listing/manufacturer's instructions and the minimum requirements of MHCSS 3280.709(g). (b) Equipment. A solid-fuel-burning fireplace or fireplace stove shall be equipped 2436 with an integral door or shutters designed to close the fire chamber opening and shall include 2437 2438 complete means for venting through the roof, a combustion air inlet, a hearth extension, and

means to securely attach the unit to the manufactured home structure.

2440 [(i) Chimney. A listed, factory-built chimney designed to be attached directly to the 2441 fireplace/fireplace stove and equipped with, in accordance with the listing, a termination device 2442 and spark arrester, shall be required. The chimney shall extend at least three feet above the part 2443 of the roof through which it passes and at least two feet above the highest elevation of any part 2444 of the manufactured home that is within 10 feet of the chimney.] 2445 [(ii) Air-intake assembly and combustion-air inlet. An air-intake assembly shall be 2446 installed in accordance with the terms of listings and the manufacturer's instruction. A combustion-air inlet shall conduct the air directly into the fire chamber and shall be designed to 2447 prevent material from the hearth from dropping on the area beneath the manufactured home. 2448 2449 [(iii) Hearth. The hearth extension shall be of noncombustible material that is a 2450 minimum of 3/8-inch thick and shall extend a minimum of 16 inches in front and eight inches 2451 beyond each side of the fireplace/fireplace stove opening. The hearth shall also extend over the 2452 entire surface beneath a fireplace stove and beneath an elevated and overhanging fireplace. 2453 [(5) Related to electrical wiring systems:] 2454 [(a) Testing. All electrical systems shall be tested for continuity in accordance with 2455 MHCSS 3280.810, to ensure that metallic parts are properly bonded; tested for operation, to demonstrate that all equipment is connected and in working order; and given a polarity check, 2456 2457 to determine that connections are proper. 2458 (b) 5.2 Protection. The electrical system shall be properly protected for the required 2459 amperage load. If the unit wiring employs aluminum conductors, all receptacles and switches 2460 rated at 20 amperes or less that are directly connected to the aluminum conductors shall be marked CO/ALA. Exterior receptacles, other than heat tape receptacles, shall be of the 2461 2462 ground-fault circuit interrupter (GFI) type. Conductors of dissimilar metals (copper/aluminum 2463 or copper-clad aluminum) must be connected in accordance with NEC, Section 110-14.] 2464 [(6) Related to replacement furnaces and water heaters:] 2465 [(a) Listing. Replacement furnaces or water heaters shall be listed for use in a manufactured home. Vents, roof jacks, and chimneys necessary for the installation shall be 2466 2467 listed for use with the furnace or water heater. 2468 [(b) Securement and accessibility. The furnace and water heater shall be secured in 2469 place to avoid displacement. Every furnace and water heater shall be accessible for servicing,

for replacement, or both as required by MHCSS 3280.709(a).1

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2471	[(c) Installation. Furnaces and water heaters shall be installed to provide complete
2472	separation of the combustion system from the interior atmosphere of the manufactured home,
2473	as required by MHCSS.]
2474	[(i) Separation. The required separation may be achieved by the installation of a
2475	direct-vent system (sealed combustion system) furnace or water heater or the installation of a
2476	furnace and water heater venting and combustion systems from the interior atmosphere of the
2477	home. There shall be no doors, grills, removable access panels, or other openings into the
2478	enclosure from the inside of the manufactured home. All openings for ducts, piping, wiring,
2479	etc., shall be sealed.]
2480	[(ii) Water heater. The floor area in the area of the water heater shall be free from
2481	damage from moisture to ensure that the floor will support the weight of the water heater.]
2482	The following are adopted as amendments to the IEBC and are applicable statewide:
2483	(1) In Section 202, the following definition is added: "BUILDING OFFICIAL. See
2484	Code Official."
2485	(2) In Section 202, the definition for "code official" is deleted and replaced with the
2486	following:
2487	"CODE OFFICIAL. The officer or other designated authority having jurisdiction (AHJ)
2488	charged with the administration and enforcement of this code."
2489	(3) In Section 202, the definition for existing buildings is deleted and replaced with the
2490	<u>following:</u>
2491	"EXISTING BUILDING. A building that is not a dangerous building and that was either
2492	lawfully erected under a prior adopted code, or deemed a legal non-conforming building by the
2493	code official."
2494	(4) In Section 301.1, the exception is deleted.
2495	(5) Section 403.5 is deleted and replaced with the following:
2496	"403.5 Bracing for unreinforced masonry parapets and other appendages upon reroofing.
2497	Where the intended alteration requires a permit for reroofing and involves removal of roofing
2498	materials from more than 25 percent of the roof area of a building assigned to Seismic Design
2499	Category D, E, or F that has parapets constructed of unreinforced masonry or appendages such
2500	as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include installation of
2501	bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of

2502	such items. For purposes of this section, design seismic forces need not be taken greater than
2503	75 percent of those that would be required for the design of similar nonstructural components
2504	in new buildings of similar purpose and location."
2505	(6) In Section 705.1, Exception number 3, the following is added at the end of the
2506	exception:
2507	"This exception does not apply if the existing facility is undergoing a change of occupancy
2508	classification."
2509	(7) Section 707.3.1 is deleted and replaced with the following:
2510	"707.3.1 Bracing for unreinforced masonry bearing wall parapets and other appendages.
2511	Where a permit is issued for reroofing more than 25 percent of the roof area of a building
2512	assigned to Seismic Design Category D, E, or F that has parapets constructed of unreinforced
2513	masonry or appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work
2514	shall include installation of bracing to resist the reduced International Building Code level
2515	seismic forces as specified in Section 301.1.4.2 of this code unless an evaluation demonstrates
2516	compliance of such items."
2517	(8) (a) Section 1007.3.1 is deleted and replaced with the following:
2518	"1007.3.1 Compliance with the International Building Code Level Seismic Forces.
2519	When a building or portion thereof is subject to a change of occupancy such that a change in
2520	the nature of the occupancy results in a higher risk category based on Table 1604.5 of the
2521	International Building Code or when such change of occupancy results in a design occupant
2522	load increase of 100% or more, the building shall conform to the seismic requirements of the
2523	International Building Code for the new risk category."
2524	(b) Section 1007.3.1, exceptions 1-3 remain unchanged.
2525	(c) In Section 1007.3.1, add a new exception 4 as follows:
2526	"4. Where the design occupant load increase is less than 25 occupants and the occupancy
2527	category does not change."
2528	(9) In Section 1012.7.3, exception 2 is deleted.
2529	(10) In Section 1012.8.2, number 7 is added as follows:
2530	"7. When a change of occupancy in a building or portion of a building results in a Group R-2
2531	occupancy, not less than 20 percent of the dwelling or sleeping units shall be Type B dwelling
2532	or sleeping units. These dwelling or sleeping units may be located on any floor of the building

2533	provided with an accessible route. Two percent, but not less than one unit, of the dwelling or
2534	sleeping units shall be Type A dwelling units."
2535	Section 37. Section <b>15A-3-901</b> is enacted to read:
2536	Part 9. Installation and Safety Requirements for Mobile Homes
2537	Built Before June 15, 1976
2538	15A-3-901. General provisions.
2539	Mobile homes built before June 15, 1976, that are subject to relocation, building
2540	alteration, remodeling, or rehabilitation shall comply with the following:
2541	(1) Related to exits and egress windows:
2542	(a) Egress windows. The home has at least one egress window in each bedroom, or a
2543	window that meets the minimum specifications of the United States Department of Housing
2544	and Urban Development's (HUD) Manufactured Homes Construction and Safety Standards
2545	(MHCSS) program as set forth in 24 C.F.R. Parts 3280 and 3282, MHCSS 3280.106 and
2546	3280.404 for manufactured homes. These standards require the window to be at least 22
2547	inches in the horizontal or vertical position in its least dimension and at least five square feet in
2548	area. The bottom of the window opening shall be no more than 36 inches above the floor, and
2549	the locks and latches and any window screen or storm window devices that need to be operated
2550	to permit exiting shall not be located more than 54 inches above the finished floor.
2551	(b) Exits. The home is required to have two exterior exit doors, located remotely from
2552	each other, as required in MHCSS 3280.105. This standard requires that a single-section home
2553	have the doors no less than 12 feet, center-to-center, from each other, and a multisection home
2554	have the doors no less than 20 feet, center-to-center, from each other, when measured in a
2555	straight line, regardless of the length of the path of travel between the doors. One of the
2556	required exit doors must be accessible from the doorway of each bedroom and no more than 35
2557	feet away from any bedroom doorway. An exterior swing door shall have a 28-inch-wide by
2558	74-inch-high clear opening and sliding glass doors shall have a 28-inch-wide by 72-inch-high
2559	clear opening. Each exterior door other than screen/storm doors shall have a key-operated lock
2560	that has a passage latch; locks shall not require the use of a key or special tool for operation
2561	from the inside of the home.
2562	(2) Related to flame spread:
2563	(a) Walls ceilings and doors. Walls and ceilings adjacent to or enclosing a furnace or

water heater shall have an interior finish with a flame-spread rating not exceeding 25. Sealants and other trim materials two inches or less in width used to finish adjacent surfaces within these spaces are exempt from this provision, provided all joints are supported by framing members or materials with a flame spread rating of 25 or less. Combustible doors providing interior or exterior access to furnace and water heater spaces shall be covered with materials of limited combustibility (i.e., 5/16-inch gypsum board, etc.), with the surface allowed to be interrupted for louvers ventilating the space. However, the louvers shall not be of materials of greater combustibility than the door itself (i.e., plastic louvers on a wooden door). Reference MHCSS 3280.203.

- (b) Exposed interior finishes. Exposed interior finishes adjacent to the cooking range (surfaces include vertical surfaces between the range top and overhead cabinets, the ceiling, or both) shall have a flame-spread rating not exceeding 50, as required by MHCSS 3280.203.

  Backsplashes not exceeding six inches in height are exempted. Ranges shall have a vertical clearance above the cooking top of not less than 24 inches to the bottom of combustible cabinets, as required by MHCSS 3280.204(e).
  - (3) Related to smoke detectors:
- (a) Location. A smoke detector shall be installed on any ceiling or wall in the hallway or space communicating with each bedroom area between the living area and the first bedroom door, unless a door separates the living area from that bedroom area, in which case the detector shall be installed on the living-area side, as close to the door as practicable, as required by MHCSS 3280.208. Homes with bedroom areas separated by any one or combination of common-use areas such as a kitchen, dining room, living room, or family room (but not a bathroom or utility room) shall be required to have one detector for each bedroom area. When located in the hallways, the detector shall be between the return air intake and the living areas.
- (b) Switches and electrical connections. Smoke detectors shall have no switches in the circuit to the detector between the over-current protection device protecting the branch circuit and the detector. The detector shall be attached to an electrical outlet box and connected by a permanent wiring method to a general electrical circuit. The detector shall not be placed on the same branch circuit or any circuit protected by a ground-fault circuit interrupter.
  - (4) Related to solid-fuel-burning stoves/fireplaces:
- (a) Solid-fuel-burning fireplaces and fireplace stoves. Solid-fuel-burning, factory-built

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2595 fireplaces, and fireplace stoves may be used in manufactured homes, provided that they are 2596 listed for use in manufactured homes and installed according to their listing/manufacturer's 2597 instructions and the minimum requirements of MHCSS 3280.709(g). (b) Equipment. A solid-fuel-burning fireplace or fireplace stove shall be equipped with 2598 2599 an integral door or shutters designed to close the fire chamber opening and shall include 2600 complete means for venting through the roof, a combustion air inlet, a hearth extension, and 2601 means to securely attach the unit to the manufactured home structure. 2602 (i) Chimney. A listed, factory-built chimney designed to be attached directly to the 2603 fireplace/fireplace stove and equipped with, in accordance with the listing, a termination device 2604 and spark arrester shall be required. The chimney shall extend at least three feet above the part 2605 of the roof through which it passes and at least two feet above the highest elevation of any part 2606 of the manufactured home that is within 10 feet of the chimney. 2607 (ii) Air-intake assembly and combustion-air inlet. An air-intake assembly shall be 2608 installed in accordance with the terms of listings and the manufacturer's instruction. A 2609 combustion-air inlet shall conduct the air directly into the fire chamber and shall be designed to 2610 prevent material from the hearth from dropping on the area beneath the manufactured home. 2611 (iii) Hearth. The hearth extension shall be of noncombustible material that is a 2612 minimum of 3/8-inch thick and shall extend a minimum of 16 inches in front and eight inches 2613 beyond each side of the fireplace/fireplace stove opening. The hearth shall also extend over the 2614 entire surface beneath a fireplace stove and beneath an elevated and overhanging fireplace. 2615 (5) Related to electrical wiring systems: 2616 (a) Testing. All electrical systems shall be tested for continuity in accordance with 2617 MHCSS 3280.810, to ensure that metallic parts are properly bonded; tested for operation, to 2618 demonstrate that all equipment is connected and in working order; and given a polarity check, 2619 to determine that connections are proper. 2620 (b) 5.2 Protection. The electrical system shall be properly protected for the required

amperage load. If the unit wiring employs aluminum conductors, all receptacles and switches

ground-fault circuit interrupter (GCI) type. Conductors of dissimilar metals (copper/aluminum

rated at 20 amperes or less that are directly connected to the aluminum conductors shall be

marked CO/ALA. Exterior receptacles, other than heat tape receptacles, shall be of the

or copper-clad aluminum) must be connected in accordance with NEC, Section 110-14.

2626	(6) Related to replacement furnaces and water heaters:
2627	(a) Listing. Replacement furnaces or water heaters shall be listed for use in a
2628	manufactured home. Vents, roof jacks, and chimneys necessary for the installation shall be
2629	listed for use with the furnace or water heater.
2630	(b) Securement and accessibility. The furnace and water heater shall be secured in
2631	place to avoid displacement. Every furnace and water heater shall be accessible for servicing,
2632	for replacement, or both as required by MHCSS 3280.709(a).
2633	(c) Installation. Furnaces and water heaters shall be installed to provide complete
2634	separation of the combustion system from the interior atmosphere of the manufactured home,
2635	as required by MHCSS.
2636	(i) Separation. The required separation may be achieved by the installation of
2637	direct-vent system (sealed combustion system) furnace or water heater or the installation of
2638	furnace and water heater venting and combustion systems from the interior atmosphere of the
2639	home. There shall be no doors, grills, removable access panels, or other openings into the
2640	enclosure from the inside of the manufactured home. All openings for ducts, piping, wiring,
2641	etc., shall be sealed.
2642	(ii) Water heater. The floor area in the area of the water heater shall be free from
2643	damage from moisture to ensure that the floor will support the weight of the water heater.
2644	Section 38. Section 15A-4-103 is amended to read:
2645	15A-4-103. Amendments to IBC applicable to City of Farmington.
2646	[The following amendments are adopted as amendments to the IBC for the City of
2647	Farmington:]
2648	[(1) A new IBC, Section (F) 903.2.13, is added as follows: "(F) 903.2.13 Group R,
2649	Division 3 Occupancies. An automatic sprinkler system shall be installed throughout every
2650	dwelling in accordance with NFPA 13D, when any of the following conditions are present:]
2651	[1. The structure is over two stories high, as defined by the building code;]
2652	[2. The nearest point of structure is more than 150 feet from the public way;]
2653	[3. The total floor area of all stories is over 5,000 square feet (excluding from the calculation
2654	the area of the basement and/or garage); or]
2655	[4. The structure is located on a street constructed after March 1, 2000, that has a gradient over
2656	12% and, during fire department response, access to the structure will be gained by using such

2657	street. (If the access is intended to be from a direction where the steep gradient is not used, as
2658	determined by the Chief, this criteria shall not apply).]
2659	[Such sprinkler system shall be installed in basements, but need not be installed in garages,
2660	under eves or in enclosed attic spaces, unless required by the Chief."]
2661	[(2) A new IBC, Section 907.9, is added as follows: "907.9 Alarm Circuit Supervision.
2662	Alarm circuits in alarm systems provided for commercial uses (defined as other than one- and
2663	two-family dwellings and townhouses) shall have Class "A" type of supervision. Specifically,
2664	Type "B" or End-of-line resistor and horn supervised systems are not allowed."]
2665	[(3) In NFPA Section 13-07, new sections are added as follows: "6.8.6 FDC Security
2666	Locks Required. All Fire Department connections installed for fire sprinkler and standpipe
2667	systems shall have approved security locks.]
2668	[6.10 Fire Pump Disconnect Signs. When installing a fire pump, red plastic laminate signs
2669	shall be installed in the electrical service panel, if the pump is wired separately from the main
2670	disconnect. These signs shall state: "Fire Pump Disconnect ONLY" and "Main Breaker DOES
2671	NOT Shut Off Fire Pump".]
2672	[22.1.6 Plan Preparation Identification. All plans for fire sprinkler systems, except for
2673	manufacturer's cut sheets of equipment shall include the full name of the person who prepared
2674	the drawings. When the drawings are prepared by a registered professional engineer, the
2675	engineer's signature shall also be included.]
2676	[22.2.2.3 Verification of Water Supply:]
2677	[22.2.2.3.1 Fire Flow Tests. Fire flow tests for verification of water supply shall be conducted
2678	and witnessed for all applications other than residential unless directed otherwise by the Chief.
2679	For residential water supply, verification shall be determined by administrative procedure.]
2680	[22.2.2.3.2 Accurate and Verifiable Criteria. The design calculations and criteria shall include
2681	an accurate and verifiable water supply.]
2682	[24.2.3.7 Testing and Inspection of Systems. Testing and inspection of sprinkler systems shall
2683	include, but are not limited to:]
2684	[Commercial:]
2685	[FLUSH-Witness Underground Supply Flush;]
2686	[ROUGH Inspection-Installation of Riser, System Piping, Head Locations and all Components,
2687	Hydrostatic Pressure Test;]

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2688 [FINAL Inspection-Head Installation and Escutcheons, Inspectors Test Location and Flow, 2689 Main Drain Flow, FDC Location and Escutcheon, Alarm Function, Spare Parts, Labeling of Components and Signage. System Completeness. Water Supply Pressure Verification. 2690 2691 Evaluation of Any Unusual Parameter." 2692 Except as otherwise provided in this title, there are no amendments to the IBC that apply only 2693 to the city of Farmington. 2694 Section 39. Section 15A-4-107 is amended to read: 2695 15A-4-107. Amendments to IBC applicable to Sandy City. 2696 The following amendments are adopted as amendments to the IBC for Sandy City: (1) A new IBC, Section (F)903.2.13, is added as follows: "(F)903.2.13 An automatic 2697 2698 sprinkler system shall be installed in accordance with NFPA 13 throughout buildings containing all occupancies where fire flow exceeds 2,000 gallons per minute, based on Table 2699 B105.1 of the [2009] 2015 International Fire Code. Exempt locations as indicated in Section 2700 2701 903.3.1.1.1 are allowed. 2702 Exception: Automatic fire sprinklers are not required in buildings used solely for worship, Group R Division 3, Group U occupancies and buildings complying with the International 2703 Residential Code unless otherwise required by the International Fire Code. 2704 2705 (2) A new IBC, Appendix L, is added and adopted as follows: "Appendix L 2706 BUILDINGS AND STRUCTURES CONSTRUCTED IN AREAS DESIGNATED AS 2707 WILDLAND-URBAN INTERFACE AREAS 2708 AL 101.1 General. Buildings and structures constructed in areas designated as Wildland-Urban 2709 Interface Areas by Sandy City shall be constructed using ignition resistant construction as determined by the Fire Marshal. Section 502 of the 2006 International Wildland-Urban 2710 2711 Interface Code (IWUIC), as promulgated by the International Code Council, shall be used to determine Fire Hazard Severity. The provisions listed in Chapter 5 of the 2006 International 2712

where defensible space is less than 50 feet as defined in Section 603 of the 2006 International

Wildland-Urban Interface Code, as modified herein, shall be used to determine the

(i) In Section 504 of the IWUIC Class I IGNITION-RESISTANT CONSTRUCTION a new

Section 504.1.1 is added as follows: "504.1.1 General. Subsections 504.5, 504.6, and 504.7

shall only be required on the exposure side of the structure, as determined by the Fire Marshal,

requirements for Ignition Resistant Construction.

2719	Wildland-Urban Interface Code.		
2720	(ii) In Section 505 of the IWUIC Class 2 IGNITION-RESISTANT CONSTRUCTION		
2721	Subsections 505.5 and 505.7 are deleted."		
2722	Section 40. Section <b>15A-4-203</b> is amended to read:		
2723	15A-4-203. Amendments to IRC applicable to City of Farmington.		
2724	[The following amendments are adopted as amendments to the IRC for the City of		
2725	Farmington:]		
2726	[(1) In IRC, R324 Automatic Sprinkler Systems, new IRC, Sections R324.1 and		
2727	R324.2 are added as follows: "R324.1 When required. An automatic sprinkler system shall be		
2728	installed throughout every dwelling in accordance with NFPA 13D, when any of the following		
2729	conditions are present:]		
2730	[1. the structure is over two stories high, as defined by the building code;]		
2731	[2. the nearest point of structure is more than 150 feet from the public way;]		
2732	[3. the total floor area of all stories is over 5,000 square feet (excluding from the calculation		
2733	the area of the basement and/or garage); or]		
2734	[4. the structure is located on a street constructed after March 1, 2000 that has a gradient over		
2735	12% and, during fire department response, access to the structure will be gained by using such		
2736	street. (If the access is intended to be from a direction where the steep gradient is not used, as		
2737	determined by the Chief, this criteria shall not apply).]		
2738	[R324.2 Installation requirements and standards. Such sprinkler system shall be installed in		
2739	basements, but need not be installed in garages, under eves or in enclosed attic spaces, unless		
2740	required by the Chief. Such system shall be installed in accordance with NFPA 13D."]		
2741	[(2) In IRC, Chapter 44, the following NFPA referenced standards are added as		
2742	follows:]		
2743			
2744	- "TABLE		
2745	- ADD		
2746	13D-07 Installation of Sprinkler Systems in One- and Two-family		
	Dwellings and Manufactured Homes, as amended by		

these rules

7	-	<del>13R-07</del>	Installation of Sprinkler Systems in Residential
			Occupancies Up to and Including Four Stories in Height"
3	] [ <del>(3</del>	) In NFPA, Section 13E	9-07, new sections are added as follows: "1.15 Reference to
	NFPA 13I	O. All references to NFP	A 13D in the codes, ordinances, rules, or regulations
	governing NFPA 13D systems shall be read to refer to "modified NFPA 13D" to reference the		
	NFPA 13D as amended by additional regulations adopted by Farmington City.]		
	[4.9 Testing and Inspection of Systems. Testing and inspection of sprinkler systems shall		
include, but are not limited to:]			
	[Residenti	al:]	
[ROUGH Inspection-Verify Water Supply Piping Size and Materials, Installation of Riser,			
System Piping, Head Locations and all Components, Hydrostatic Pressure Test.]			
	[ <del>FINAL Ir</del>	nspection-Inspectors Test	Flow, System Completeness, Spare Parts, Labeling of
	Componer	nts and Signage, Alarm F	Function, Water Supply Pressure Verification.]
[5.2.2.3 Exposed Piping of Metal. Exposed Sprinkler Piping material in rooms of dwellings			
	shall be of	Metal.]	
	[EXCEPT	HONS:	
	[a. CPVC	Piping is allowed in unf	inished mechanical and storage rooms only when
specifically listed for the application as installed.]			
	[ <del>b. CPVC</del>	Piping is allowed in fin	ished, occupied rooms used for sports courts or similar uses
	only when	the ceiling/floor framing	g above is constructed entirely of non-combustible materials,
	such as a c	concrete garage floor on	metal decking.]
	[ <del>5.2.2.4 W</del>	Vater Supply Piping Mate	erial. Water Supply Piping from where the water line enters
	the dwellin	ng adjacent to and inside	the foundation to the fire sprinkler contractor
	<del>point-of-c</del>	onnection shall be metal,	, suitable for potable plumbing systems. See Section 7.1.4
	for valve p	prohibition in such piping	g. Piping down stream from the point-of-connection used in
	the fire sp	rinkler system, including	the riser, shall conform to NFPA 13D standards.]
	[ <del>5.4 Fire F</del>	Pump Disconnect Signs.	When installing a Fire Pump, Red Plastic Laminate Signs
	shall be in	stalled in the electrical so	ervice panel, if the pump is wired separately from the main
	disconnec	t. These signs shall state	: "Fire Pump Disconnect ONLY" and "Main Breaker DOES
	NOT Shut	Off Fire Pump".]	
	[ <del>7.1.4 Val</del>	ve Prohibition. NFPA 1:	3D, Section 7.1 is hereby modified such that NO VALVE is

2///	permitted from the City Water Meter to the Fire Sprinkler Riser Control.		
2778	[7.6.1 Mandatory Exterior Alarm. Every dwelling that has a fire sprinkler system shall have an		
2779	exterior alarm, installed in an approved location. The alarm shall be of the combination		
2780	horn/strobe or electric bell/strobe type, approved for outdoor use.]		
2781	[8.1.05 Plan Preparation Identification. All plans for fire sprinkler systems, except for		
2782	manufacturer's cut sheets of equipment, shall include the full name of the person who prepared		
2783	the drawings. When the drawings are prepared by a registered professional engineer, the		
2784	engineer's signature shall also be included.]		
2785	[8.7 Verification of Water Supply:]		
2786	[8.7.1 Fire Flow Tests: Fire Flow Tests for verification of Water Supply shall be conducted and		
2787	witnesses for all applications other than residential, unless directed otherwise by the Chief. For		
2788	residential Water Supply, verification shall be determined by administrative procedure.]		
2789	[8.7.2 Accurate and Verifiable Criteria. The design calculations and criteria shall include an		
2790	accurate and verifiable Water Supply.]		
2791	Except as otherwise provided in this title, there are no amendments to the IRC that apply only		
2792	to the city of Farmington.		
2793	Section 41. Section <b>15A-6-101</b> is enacted to read:		
2794	CHAPTER 6. ADDITIONAL CONSTRUCTION REQUIREMENTS		
2795	Part 1. Nitrogen Oxide Emission Limits for Natural Gas-Fired Water Heaters		
2796	<u>15A-6-101.</u> Title.		
2797	This chapter is known as "Additional Construction Requirements."		
2798	This part is known as "Nitrogen Oxide Emission Limits for Natural Gas-Fired Water		
2799	Heaters."		
2800	Section 42. Section <b>15A-6-102</b> is enacted to read:		
2801	15A-6-102. Nitrogen Oxide emission limits for natural gas-fired water heaters.		
2802	(1) As used in this section:		
2803	(a) "BTU" means British Thermal Unit.		
2804	(b) (i) "Heat input" means the heat of combustion released by fuel burned in a water		
2805	heater based on the heating value of the fuel.		
2806	(ii) "Heat input" does not include the enthalpy of a water heater's incoming combustion		
2807	air.		

2808	(c) "Heat output" means the enthalpy of a water heater's working fluid output.
2809	(d) "Natural gas-fired water heater" means a device that heats water:
2810	(i) using natural gas combustion;
2811	(ii) for use external to the device at a pressure that is less than or equal to 160 pounds
2812	per square inch gage; and
2813	(iii) to a thermostatically controlled temperature less than or equal to:
2814	(A) 210 degrees Fahrenheit; or
2815	(B) 99 degrees Celsius.
2816	(e) "ppm" means parts of Nitrogen Oxide per million parts of water heater air output.
2817	(f) "Recreational vehicle" means the same as that term is defined in Section 13-14-102.
2818	(2) Subject to Subsection (6), a person may not sell or install a natural gas-fired water
2819	heater with an emission rate greater than the following limits:
2820	(a) for a water heater that has a heat input of less than or equal to 75,000 BTU per hour
2821	that is not installed in a mobile home, a limit of:
2822	(i) 10 nanograms per Joule of heat output; or
2823	(ii) 15 ppm, corrected to 3% oxygen;
2824	(b) for a water heater that has a heat input of greater than 75,000 BTU per hour and less
2825	than 2,000,000 BTU per hour that is not installed in a mobile home, a limit of:
2826	(i) 10 nanograms per Joule of heat output; or
2827	(ii) 20 ppm, corrected to 3% oxygen;
2828	(c) for a water heater installed in a mobile home, a limit of:
2829	(i) 40 nanograms per Joule of heat output; or
2830	(ii) 20 ppm, corrected to 3% oxygen;
2831	(d) for a pool or spa water heater with a heat input that is less than or equal to 400,000
2832	BTU per hour, a limit of:
2833	(i) 40 nanograms per Joule of heat output; or
2834	(ii) 55 ppm, corrected to 3% oxygen; and
2835	(e) for a pool or spa water heater with a heat input of greater than 400,000 BTU per
2836	hour and less than 2,000,000 BTU per hour, a limit of:
2837	(i) 14 nanograms per Joule of heat output; or
2838	(ii) 55 ppm, corrected to 3% oxygen.

2839	(3) A water heater manufacturer shall use California South Coast Air Quality		
2840	Management District Method 100.1 to calculate the emissions rate of a water heater subject to		
2841	this section.		
2842	(4) A water heater manufacturer shall display on a water heater subject to this section,		
2843	as a permanent label, the model number and the nitrogen oxide emission rate of the water		
2844	heater.		
2845	(5) The requirements of this section do not apply to:		
2846	(a) a water heater using a fuel other than natural gas;		
2847	(b) a water heater used in a recreational vehicle;		
2848	(c) a water heater manufactured in the state for sale and shipment outside of the state;		
2849	<u>or</u>		
2850	(d) a water heater manufactured before July 1, 2018.		
2851	(6) Subsection (2) applies to the sale or installation of a water heater on or after July 1,		
2852	<u>2018.</u>		
2853	Section 43. Section <b>58-11a-502</b> is amended to read:		
2854	58-11a-502. Unlawful conduct.		
2855	Unlawful conduct includes:		
2856	(1) practicing or engaging in, or attempting to practice or engage in activity for which a		
2857	license is required under this chapter unless:		
2858	(a) the person holds the appropriate license under this chapter; or		
2859	(b) an exemption in Section 58-1-307 or 58-11a-304 applies;		
2860	(2) knowingly employing any other person to engage in or practice or attempt to		
2861	engage in or practice any occupation or profession licensed under this chapter if the employee		
2862	is not licensed to do so under this chapter or exempt from licensure;		
2863	(3) touching, or applying an instrument or device to the following areas of a client's		
2864	body:		
2865	(a) the genitals or the anus, except in cases where the patron states to a licensee that the		
2866	patron requests a hair removal procedure and signs a written consent form, which must also		
2867	include the witnessed signature of a legal guardian if the patron is a minor, authorizing the		
2868	licensee to perform a hair removal procedure; or		
2869	(b) the breast of a female patron, except in cases in which the female patron states to a		

## 2nd Sub. (Gray) H.B. 316

This bill repeals:

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## 02-11-16 2:59 PM

2870	licensee that the patron requests breast skin procedures and signs a written consent form, which
2871	must also include the witnessed signature of a parent or legal guardian if the patron is a minor,
2872	authorizing the licensee to perform breast skin procedures;
2873	(4) using or possessing a solution composed of at least 10% methyl methacrylete on a
2874	client;
2875	(5) performing an ablative procedure as defined in Section 58-67-102;
2876	(6) when acting as an instructor regarding a service requiring licensure under this
2877	chapter, for a class or education program where attendees are not licensed under this chapter,
2878	failing to inform each attendee in writing that:
2879	(a) taking the class or program without completing the requirements for licensure under
2880	this chapter is insufficient to certify or qualify the attendee to perform a service for
2881	compensation that requires licensure under this chapter; and
2882	(b) the attendee is required to obtain licensure under this chapter before performing the
2883	service for compensation; or
2884	(7) failing as a salon or school where nail technology is practiced or taught to maintain
2885	a source capture system required under [Section 15A-3-401] Title 15A, State Construction and
2886	Fire Codes Act, including failing to maintain and clean a source capture system's air filter
2887	according to the manufacturer's instructions.
2888	Section 44. Repealer.

Section 15A-3-106.5, Amendments to Chapter 15 of IBC.